

ORIGAMI TANTEIDAN 9th CONVENTION

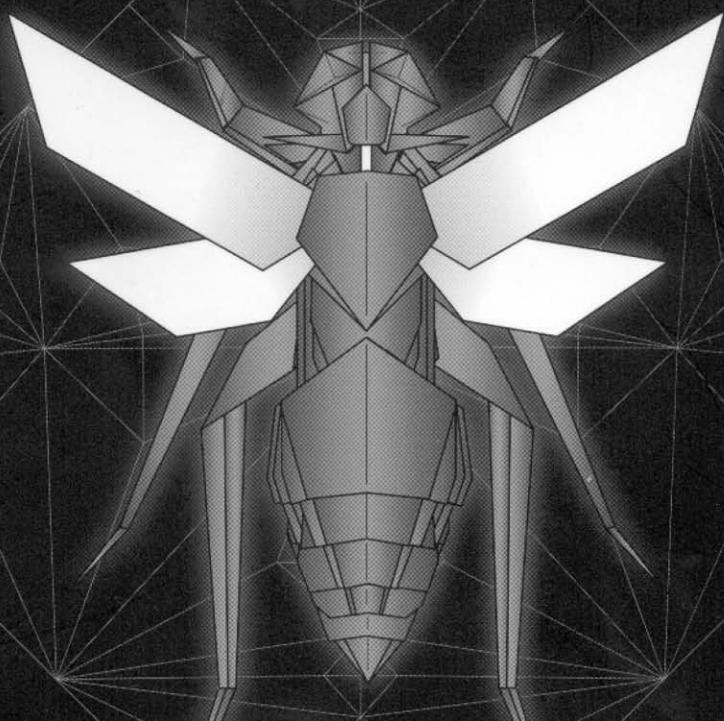
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第9回

# 折紙探偵団 コンベンション

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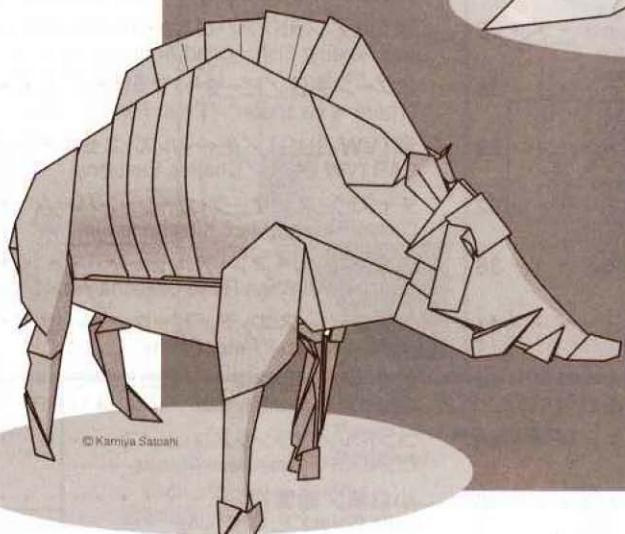
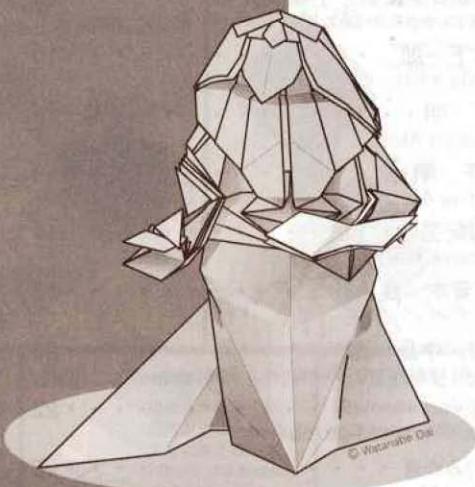
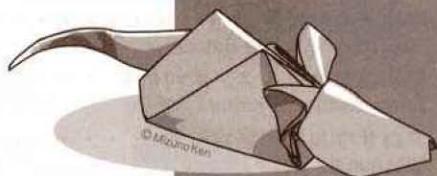
## 折り図集

### Vol.9

発行・日本折紙学会

ORIGAMI TANTEIDAN 9th CONVENTION

第9回  
折紙探偵団  
コンベンション



折り図集

Vol. 9

## 9th Origami Tanteidan Convention Book

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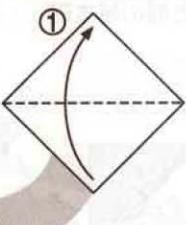
# 折り図記号

## 折り線の種類 Types of crease lines

### 谷折り線 Valley fold



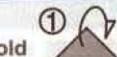
### 谷折り Valley fold



### 山折り線 Mountain fold



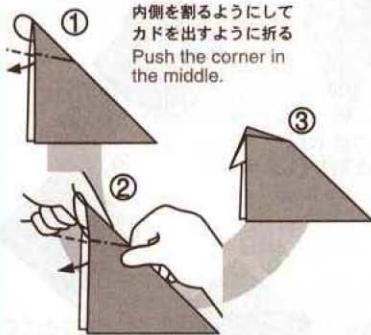
### 山折り Mountain fold



## 折り方の技法 Basic Folding Skills

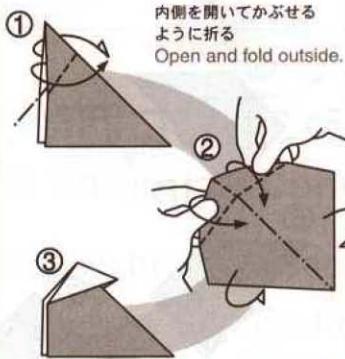
### 中わり折り Inside-reverse fold

内側を割るようにして  
カドを出すように折る  
Push the corner in  
the middle.



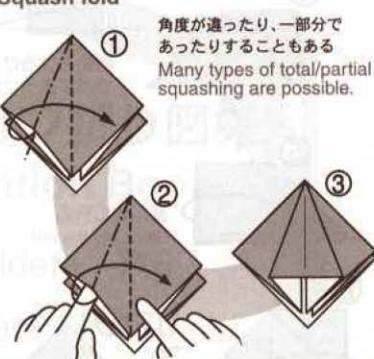
### かぶせ折り Outside-reverse fold

内側を開いてかぶせる  
ように折る  
Open and fold outside.



### 内側をひろげてつぶすように折る Squash fold

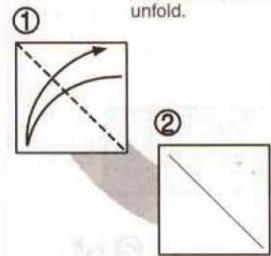
角度が違ったり、一部分  
でたたりすることもある  
Many types of total/partial  
squashing are possible.



## いろいろな記号 Symbols

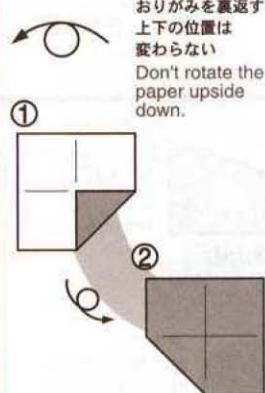
### 折り筋をつける Making a crease line

一度折ってから戻して  
折り筋をつける  
Fold and mark a  
crease line, then  
unfold.



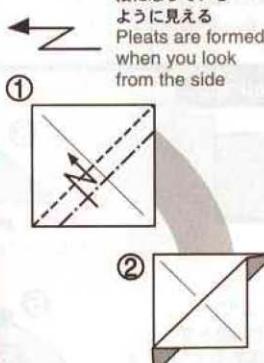
### 裏返す Turn paper over

おりがみを裏返す  
上下の位置は  
変わらない  
Don't rotate the  
paper upside  
down.



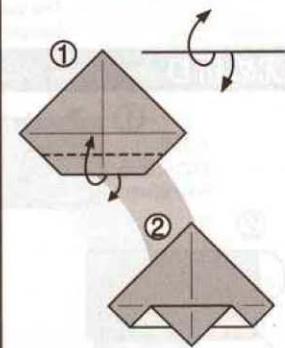
### 段折り Pleat fold

横から見ると  
段になっている  
よう見える  
Pleats are formed  
when you look  
from the side



### 下の部分を出すように折る Release bottom flap when making a fold

Release bottom flap  
when making a fold



### 次の図が 大きくなる A magnified view



### 仮想線・透視線 A hidden line

### ひろげる Open up

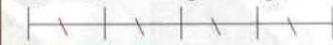


### 次の図の見る位置が変わる Paper position changes

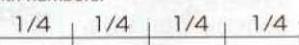
(rotation)

### 等分記号 Division

長さの等分 Dividing the length



数字で表す場合もある  
The ratio is often represented  
with numbers.



### 押す・つぶす Push paper in



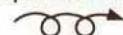
### 引き出す Pull out



### ○と○を 合わせて折る Match circled points



### 巻くように折る Roll the flap by repeated folds

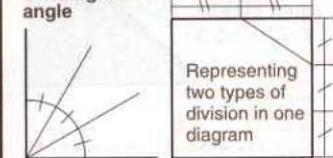


### 注意するところ Marked points



### 等分の等分 Dividing the angle

1つの図で2種類の  
等分を表す場合

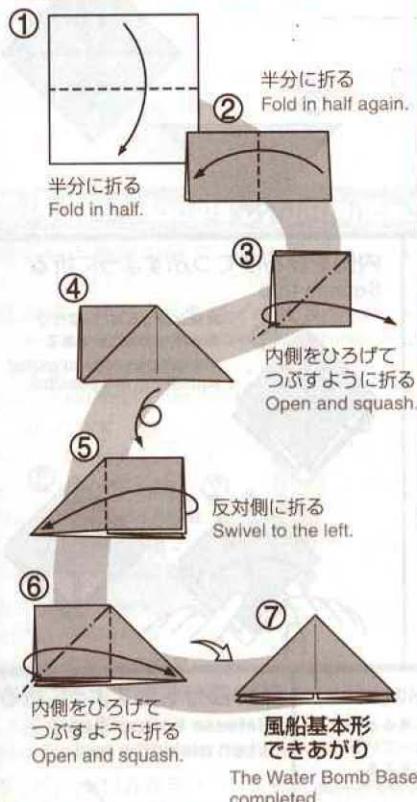


# 基本形 / 沈め折り

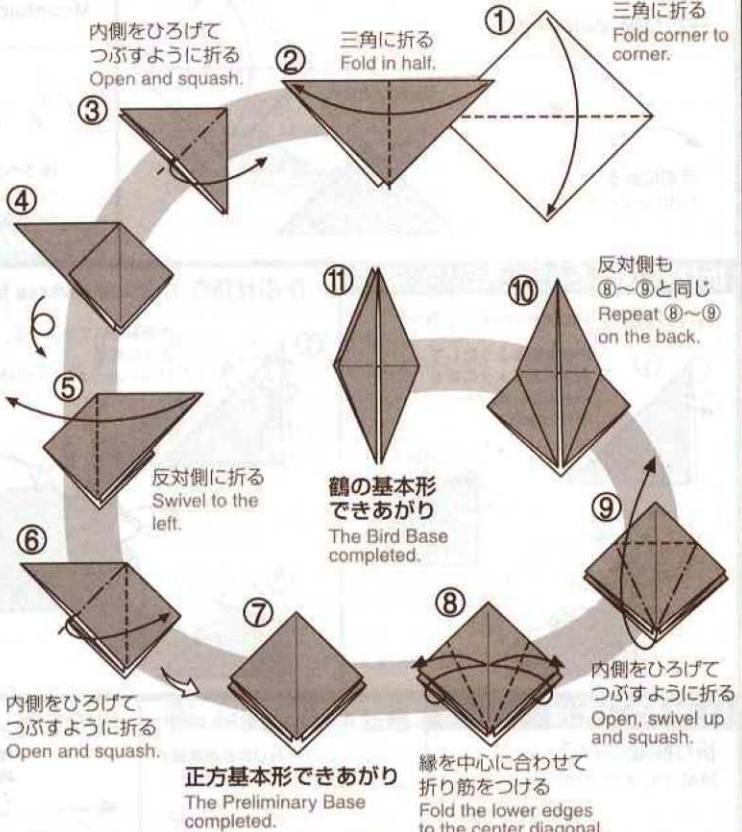
## Preliminary Bases and Sink

### 基本形 Preliminary bases

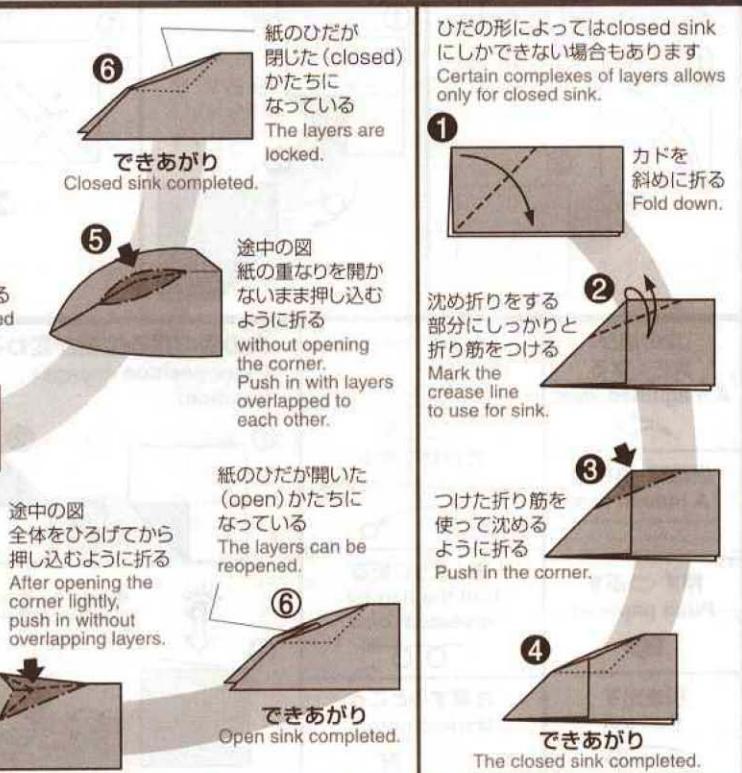
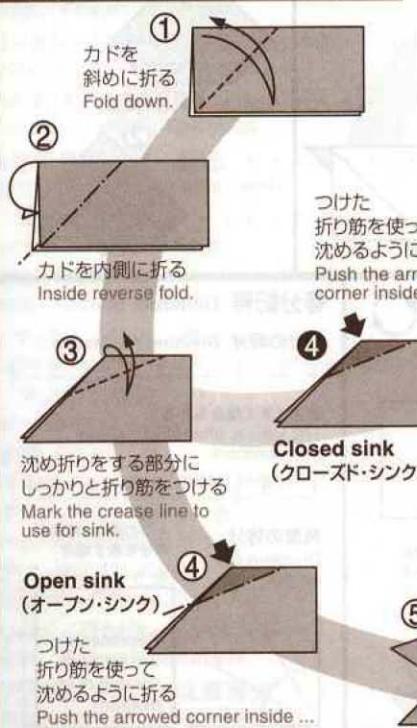
#### 風船基本形 Water Bomb Base

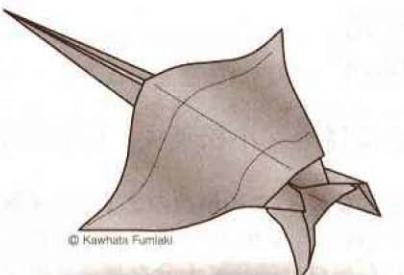


#### 正方基本形と鶴の基本形 Preliminary Base / Bird Base



### 沈め折り Open sink / Closed sink

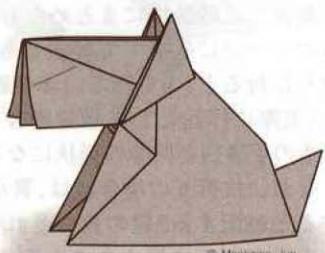
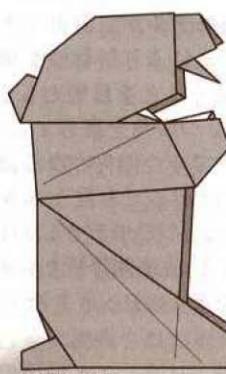
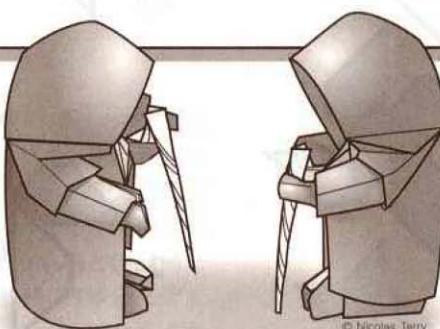




## 第9回折紙探偵団コンベンション折り図集 9th Origami Tanteidan Convention Book

国内編／Models by Japanese Folders P.6

海外編／Models by Foreign Folders P.170



## 一枚折り手裏剣の研究 One sheet throwing knife "shuriken"

山田純 小笠徑一 小松英夫 ○ 笹出晋司

### 1.はじめに

伝承の手裏剣は2枚の紙(2:1の長方形)を使用して折られるが1枚の紙を使用して同じ形を作る研究を行った。概要は下記のとおりである。

- 1)最終の仕上がりが伝承2枚組と同じような動作で紙の層に差し込んで留める構造にした。
- 2)伝承と同じ大きさになる折り方を発見した。
- 3)4つの角、裏表が任意に色分けできる工夫をした。

### 2.山田モデル

2002年コンベンションで講習が行われたもので、本研究のきっかけになった元祖一枚折り手裏剣である。概念図をfig.1に示す。

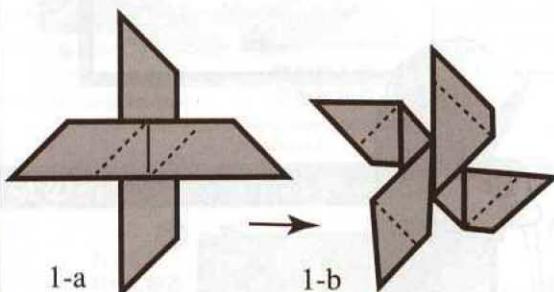


fig.1 山田モデル

1-aは正方形の各辺を5等分し、ボックスプリーツの要領で二艘船様にまとめたものである。これを2つのテープに見立てて裏表とも1-aに示す破線のとおりに折ると1-bを得る。1-bの破線部分を取り去ると(実際に作品として折る場合は内部に折り込む)伝承の手裏剣と同等の形状になることがわかる。

なお、2枚折りの場合には、異なった色の紙を用意すると対面する2組の角がそれぞれ同色になった2色の手裏剣を作成することができ、また、これが一般的であるが、山田モデルにおいても色を変えたい角の部分の紙をひっくり返して裏面を出すことにより実現することができる。

しかしながら、この構造のまま2色手裏剣を作成すると、紙の重なり、引っ掛かりの制約から内部に差し込むベロの部分に十分な長さを確保することができなかった。

### 3. 笹出モデル初号機

2002年のコンベンションで山田の講習を受講していた筆出はしばらく後fig.2に示す構造を提案した。

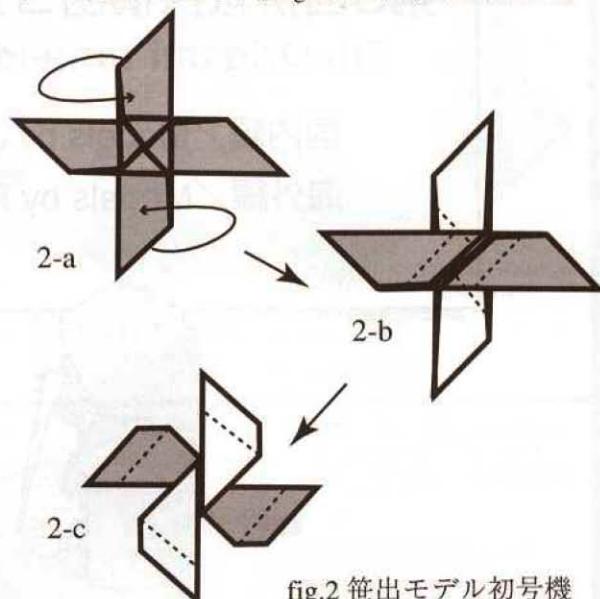


fig.2 笹出モデル初号機

このモデルは、山田モデルが二艘舟であったところを、風車様にしたことにより対称性を増させてベロが短くなることを防ぐことを目的とした。

2-aにおいて対面する2つの角を裏返すことで、2色を実現させたのち、2-bで4つの角となる部分をかぶせ折り(closedかぶせ折りとでも言うべき折り方に)すると2-cを得る。このモデルにおいては、山折り谷折りを工夫すると、表裏同等折りも実現できた。

ただし、紙に無駄が多く、すっきり折ることが難しい。

## 第9回折紙探偵団コンペション予稿集

[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)

## 4.小笠モデル

笹出モデル初号機の無駄を排除すれば4等分で実現可能であろうことは直感的に理解できるが、これを最初に実現させたものが、小笠モデルである。

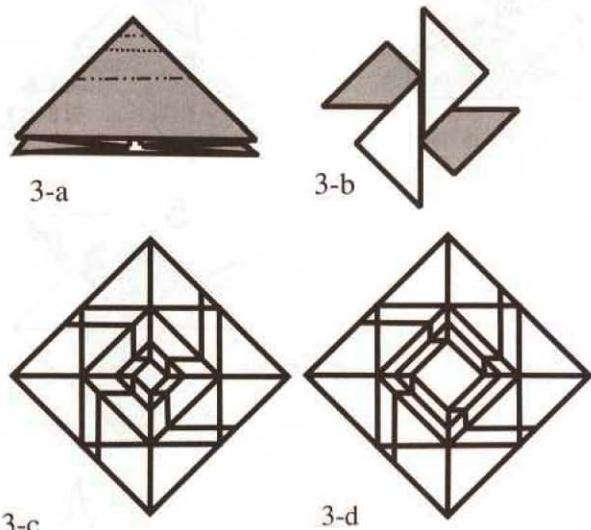


fig.3 小笠モデル

fig.3に示すとおり、風船の基本形の頂点の部分(紙の中心)から上下方向に2等分、4等分、8等分して段沈め折りしてきた二艘船のうち一艘を90度回転させてから風車様にすると2-aを太めにしたものを得ることができる。これを2-aから2-cの手順とほぼ同じように折ると、3-bを得る。これは前述の5等分モデルと比較したとき無駄が排除され、かつ折りやすくなっている優れたモデルと言える。参考に3-cに展開図を示す。また、3-dは笹出によるバリエーションである。(笹出モデル式号機)

これらモデルに関して特筆すべきことは、同じ大きさの正方形から作った伝承作の手裏剣と完成時の大きさが全く同じになることが挙げられる。

## 5.小松の単純化と笹出の色分け

小笠モデルにより完成したと思われた手裏剣プロジェクトであったが、小松により、中心部を表裏同等ねじり折りすると展開図がより単純化されることが指摘された。あまりに単純な展開図になったこと、また、季刊をる11号に掲載された前川淳氏の表裏同等風車などとの類似性から、過去に作例がないであろうかということが話題になった。

(その後、2002年9月の例会で池上氏、神谷氏より、Jeremy Shafer氏の Promotional Brochure とほぼ同じ展開図であるとの情報をいただきました。しかしながら、100%同じではないこと、また、手裏剣になることは独自研究であり、単純なモデル故の偶然と考えます。)

また、笹出が前川氏のをる11号の記事を参考に色分けモデルを作った。fig.5に参考作例を示す。これらは同じ展開図の山折り谷折りを変えることで実現可能である。ここまで来ると完成形の表と裏で色分けを行いたくなってくるが、現在のところ6等分額縁折りを仕込んだ後、普通に折るという安易な方法に頼っている。しかし、裏も表も任意に色分けができるため、極めて自由度が高い方法ではある。

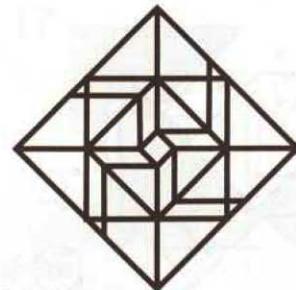


fig.4 小松展開図

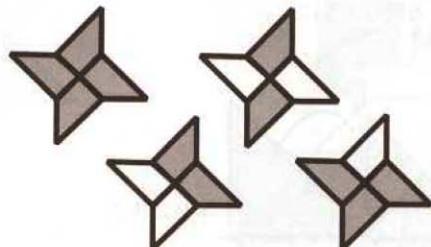


fig.5 色分けのバリエーション

## 6.おわりに

この研究は、2002年8月12日ころから8月22日ころまで共同研究者間で電子メールを活用して行なった。また、今回の研究成果を小松が折り図にまとめたのでそちらも参考とされたい。

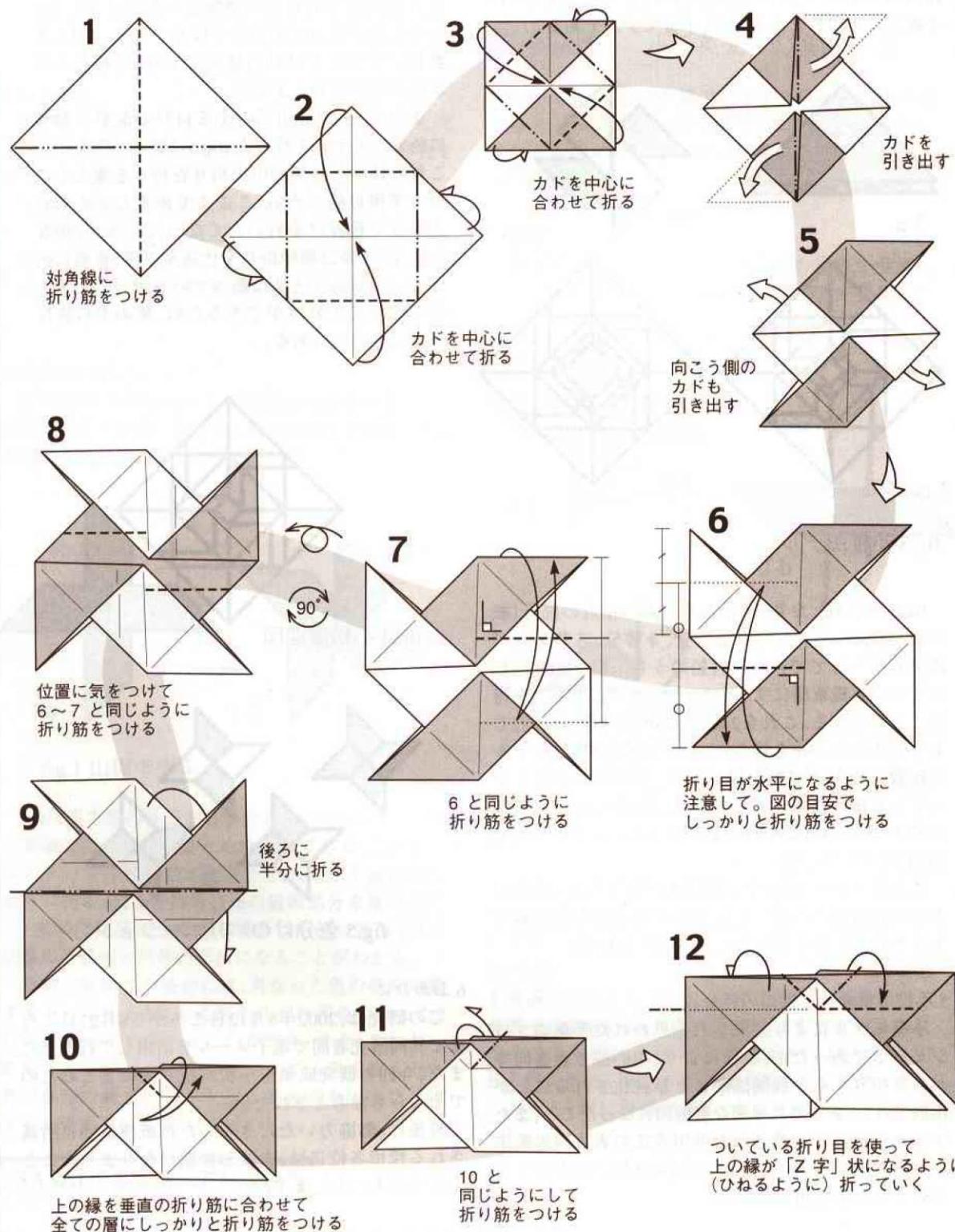
最後に、御協力いただきました折紙探偵団に所属される探偵各位には、大変お世話になりましたことを深く感謝いたします。

One sheet inside-out isomorphic throwing knife "shuriken"

# 表裏同等一枚折り 手裏剣

作=山田純+ 笹出晋司+ 小笠原一+ 小松英夫

Model designed by Yamada Jun, Sasade Shinji, Kozasa Keiichi, Komatsu Hideo Diagrams produced by Komatsu Hideo



ORIGAMI TANTEIDAN 9th CONVENTION

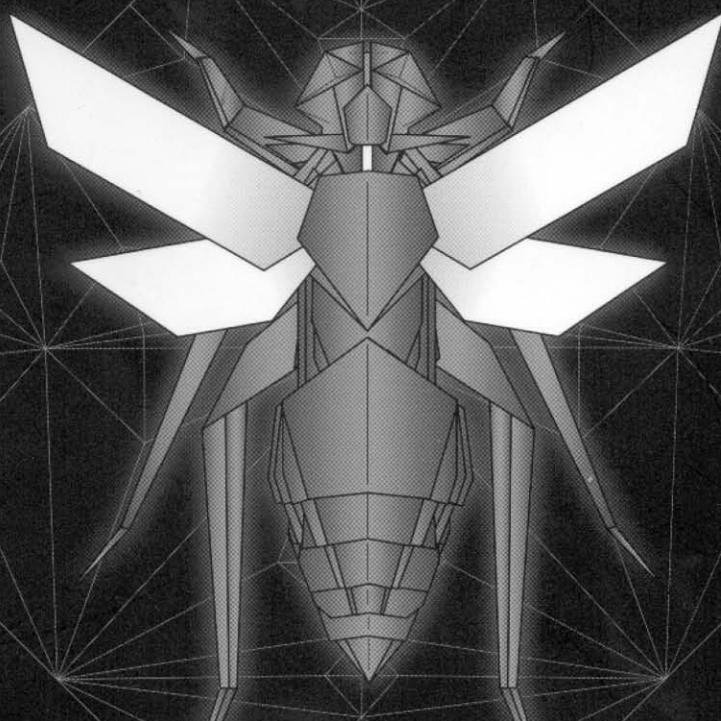
Japão Burajirujin

[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)

第9回

# 折紙探偵団 コンベンション

© Meguro Toshiyuki 2003



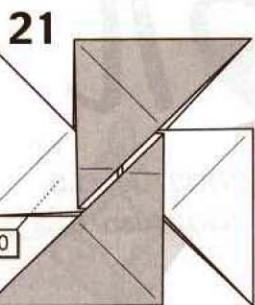
Japão Burajirujin

[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)

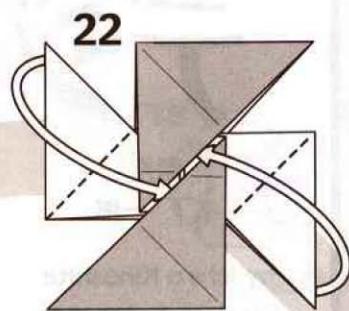
## 折り図集

### Vol.9

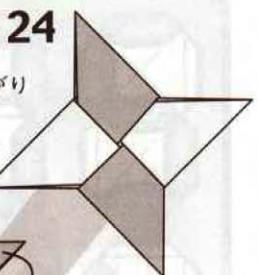
発行・日本折紙学会



裏側も 17~20 と同じように折る  
(今度は白いカドを折る)

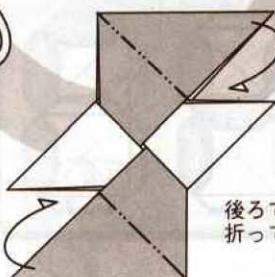


カドを折って  
すき間に差し込む

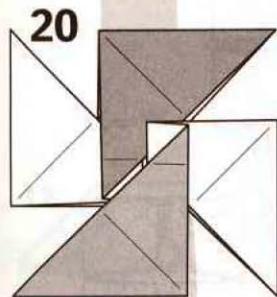


できあがり

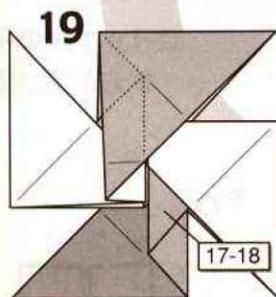
23



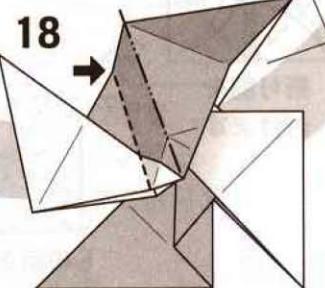
後ろでも 22 と同じように  
折って差し込む



濃い色で示した紙を  
手前に持ってくる

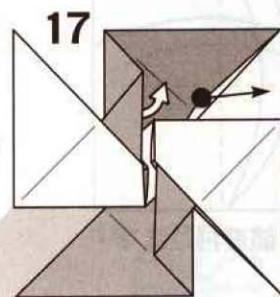


下のカドも 17~18 と  
同じように折る

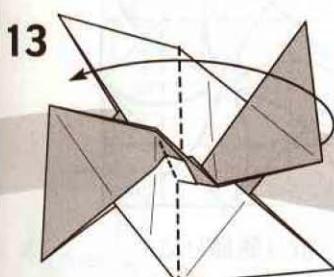
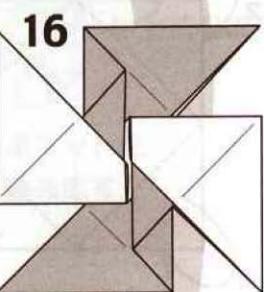


上半分は半開きに  
なっている

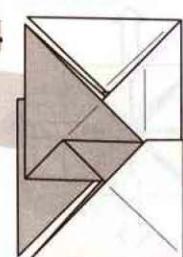
黒矢印のところを  
押し込んで  
平らにまとめなおす



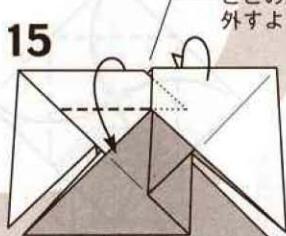
黒丸のところ  
(表の 1 枚のみ)  
を持って  
そっと引き出す  
  
中心付近の  
折り込みが  
ほどけて分離する



途中図  
平らに半分に折り畳む



90°



15

この紙の重なりを  
外すようにする

ついている折り目を使って  
上の縁を互い違いに折る

# デジタル

創作

木下 一郎

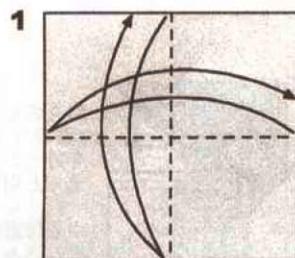
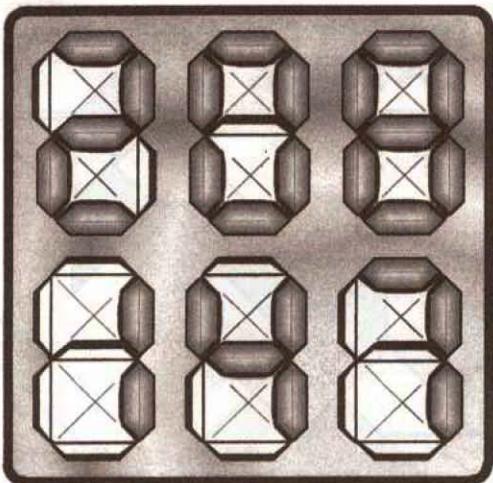
2002/Dec/15

2003/Jan/3

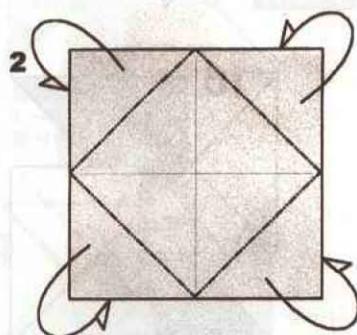
by Ichiro Kinoshita

Diagram &amp; Arrange

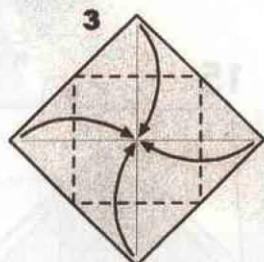
Eiji Tsuchito



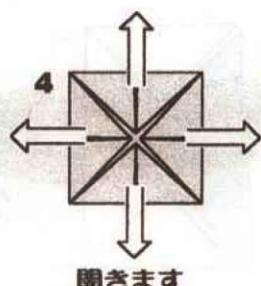
折り筋を付けます



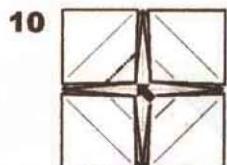
さぶとん折り



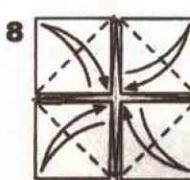
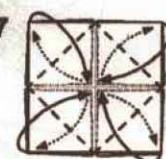
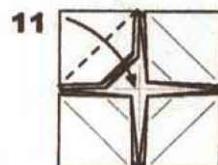
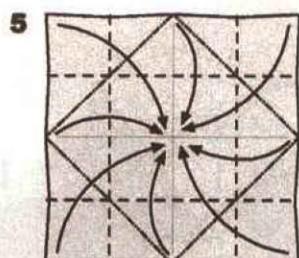
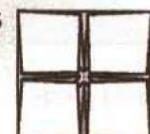
さぶとん折り

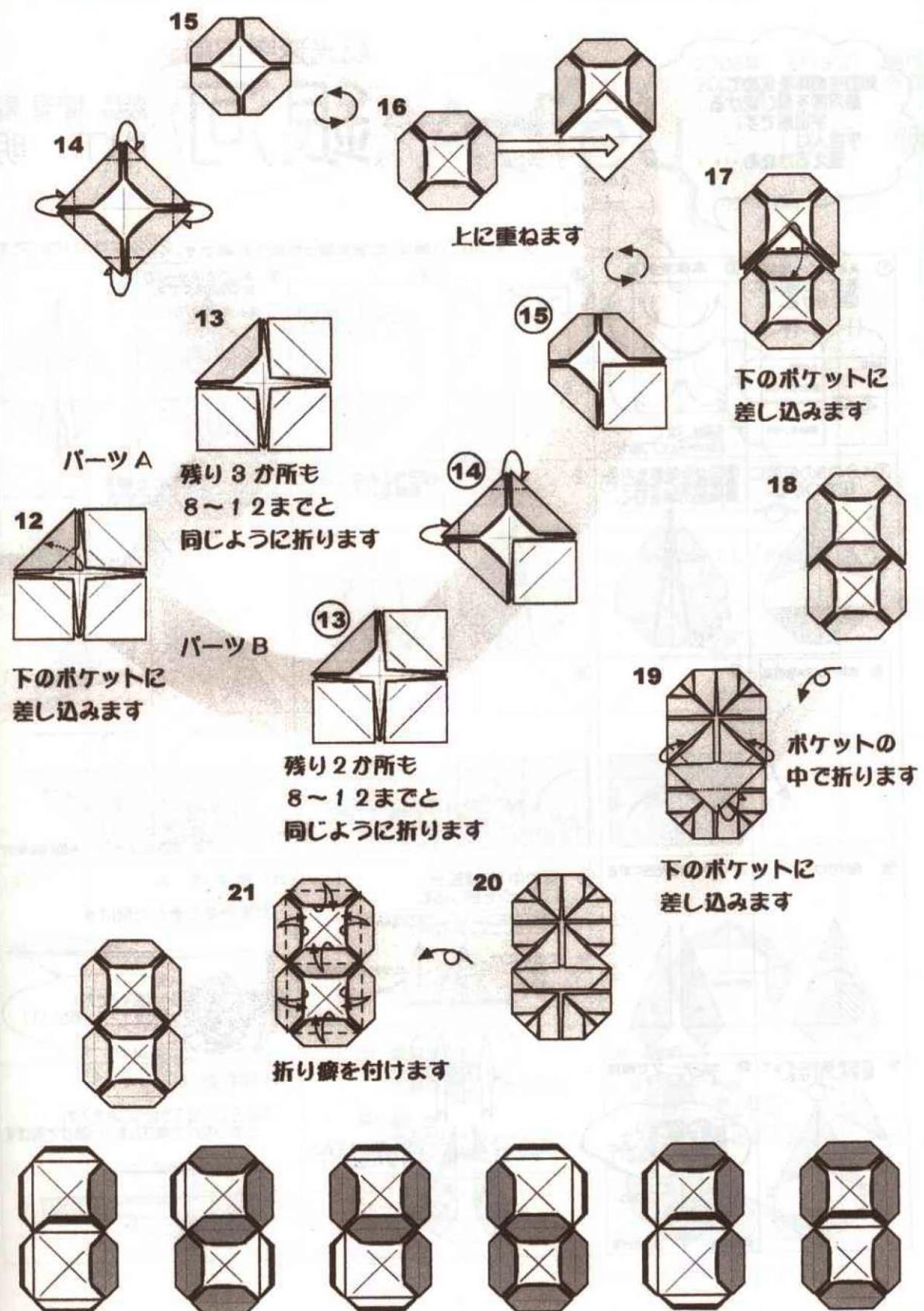


開きます



渋め折り

折り筋を  
付けます下の紙を上に  
出しながら折ります  
(はね折り)折り筋通りに  
折りたたみます



超光速宇宙船

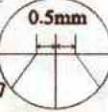
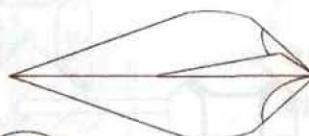
## 銀河

2002年 6月20日 製作

2003年 7月 1日 製作

山下 明

知的生命体を求めて、  
銀河間を飛び続ける  
宇宙船です。  
宇宙人に  
還えるかなあ・・・



⑥、⑧、⑩の谷線は、定規を使ったほうが楽です。◎は糊付けの印です。

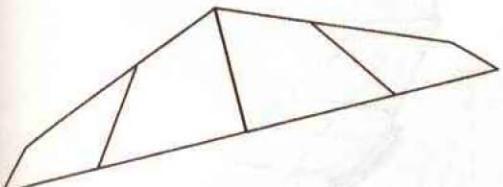
① A4コピー用紙を三つの部分に切り分ける。 	② 本体を折る 	③ 	④ 	⑤ ここで「0.5mm」がなくなるはずです。 	⑥ 
⑦ 4分の3の位置に印をつける。 	⑧ 印から谷線を折る。分度器などを使って昇降舵の線をひく。 	⑨ 	⑩ 三角の斜面に沿って谷線を折る。 	⑪ ⑤～⑩でつけた線を右の図になるように折る。 	
⑫ 燃料タンクAを折る 	⑬ 	⑭ 	⑮ 	⑯ 	
⑰ 糊付け 	⑱ タンクBも同様に折る 	⑲ 間の中(斜線部分)にタンクを差し込む 	⑳ 飛ばし方 A 丸部分をつまんで飛ばす 		
㉑ 四角を適当に切って翼を丸く見える。 	㉒ ゼロテープで補強 	㉓ 少し糊付けするとはずれないよ! 	㉔ 飛ばし方 B 丸部分に爪切りで切り込みを入れ三本つなげた輪ゴムを引っ掛け飛ばす 		

アデュー

2003年 3月30日 創作  
2003年 7月 1日 作図

## Adieu

山下 明



<p>① 15cmの折紙を4等分します。</p>	<p>②</p>	<p>③</p>
<p>④</p>	<p>⑤</p>	<p>⑥ カルく糊付けして折ります。</p>
<p>⑦ 左右の翼を糊付し、上の線が下の紙の角と合うように折ります。</p> <p>* つまり、左右とも糊付し、左右とも折ります。</p>	<p>⑧ 紙の重なりの段差があるところから、辺と角を合わせるように折ります。</p> <p>この辺に紙の重なりの段差がある</p>	<p>⑨ 翼を広げ(戻し)ます。</p>
<p>⑩ 一応、できあがり。でもここから少し形を整えます。</p>	<p>⑪ 翼は水平に、中央の角度は、可能な限り、大きくする。 早い話が、できるだけベッチャンコに！(それでも、優雅に飛ぶぞ！)</p>	<p>⑫ 飛ばし方 ★印のところを親指と人差し指で上下からつまんで、そつと、押し出すように、飛ばす。</p>

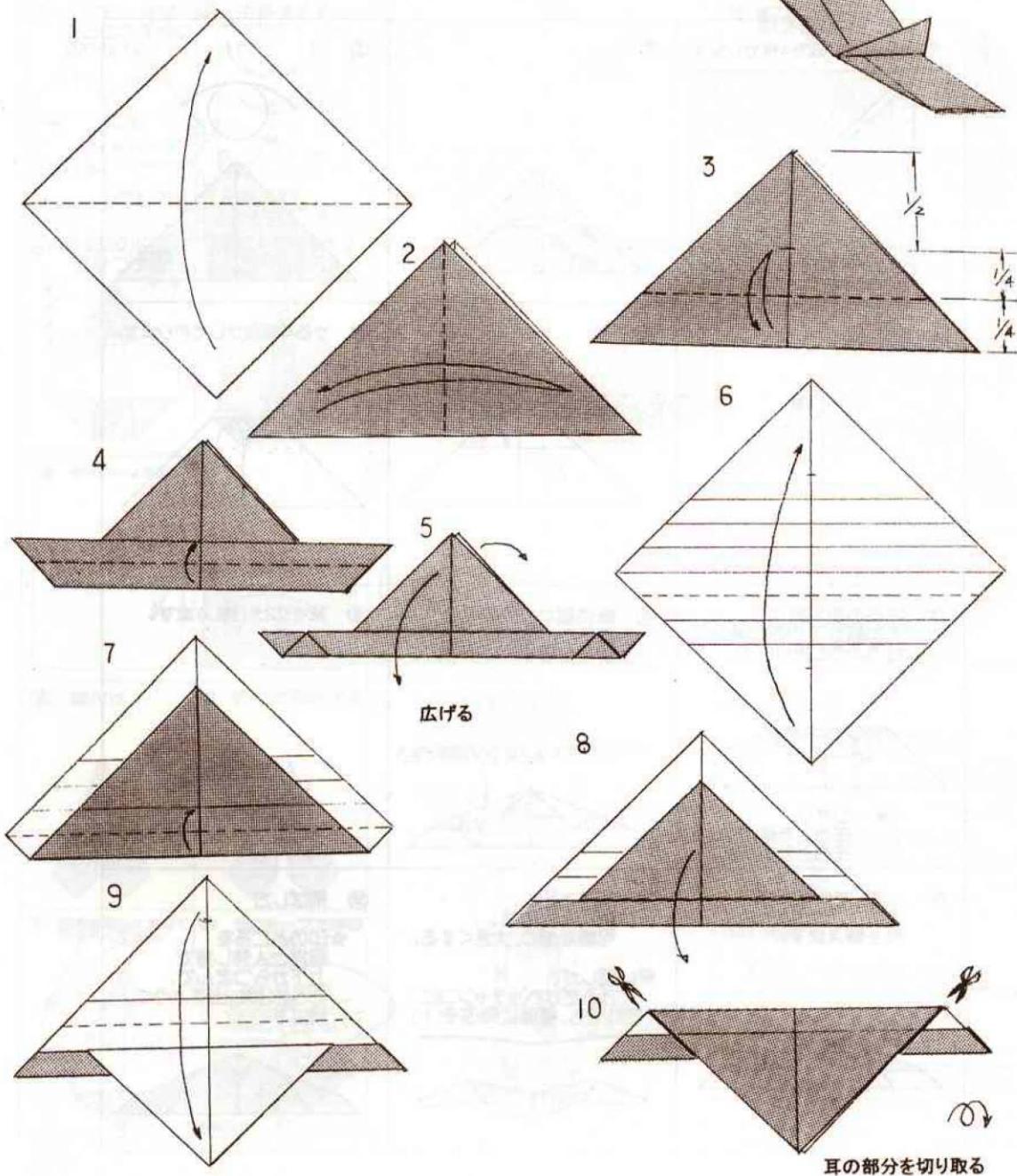
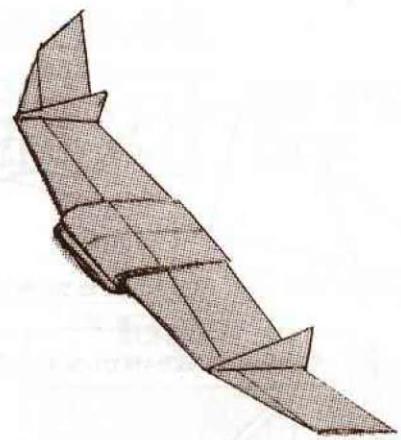
# メーヴェ

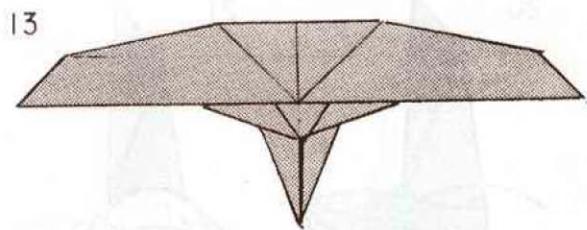
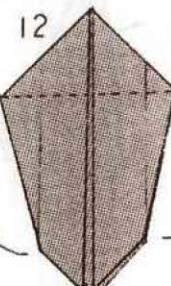
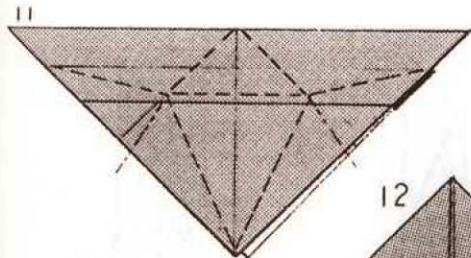
2003/4/10

黒川 紀男

アニメ「風の谷のナウシカ」の主人公ナウシカの愛機「メーヴェ」  
をモデルに作りました。

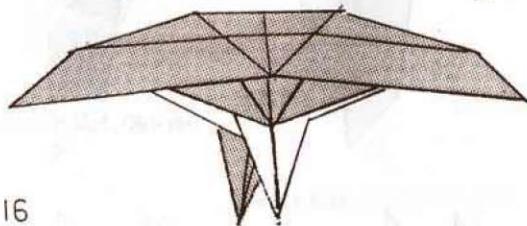
紙が重なり少し折りにくいですが、簡単な調整で軽快に飛びます。



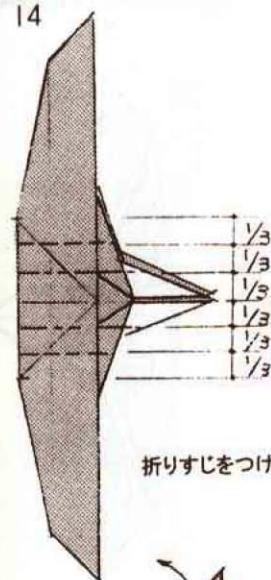


中の部分を引出し2枚にして重ねる  
途中図

左右に開き引張る

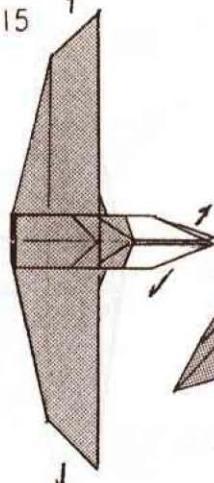


14

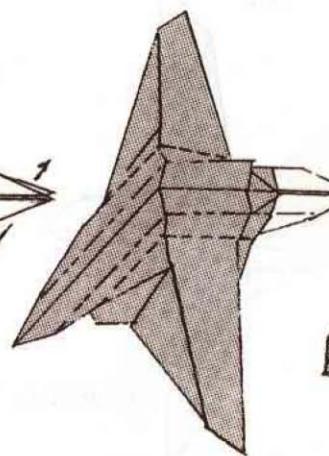


折りすじをつける

15



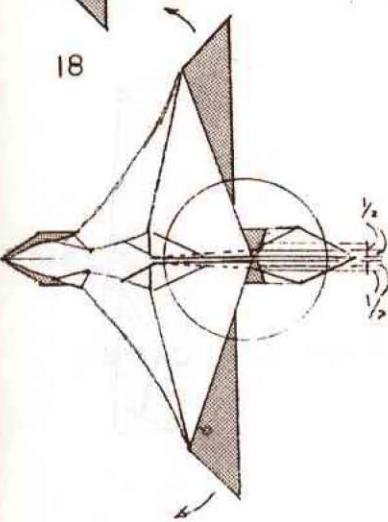
16



17

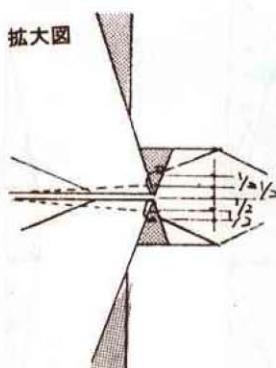


18

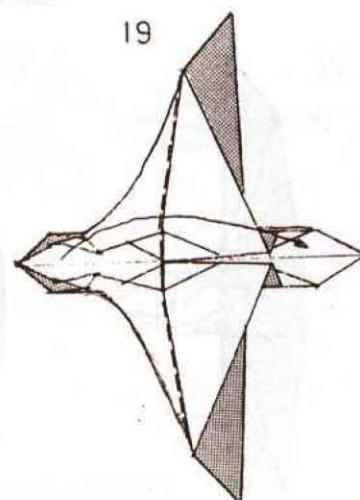


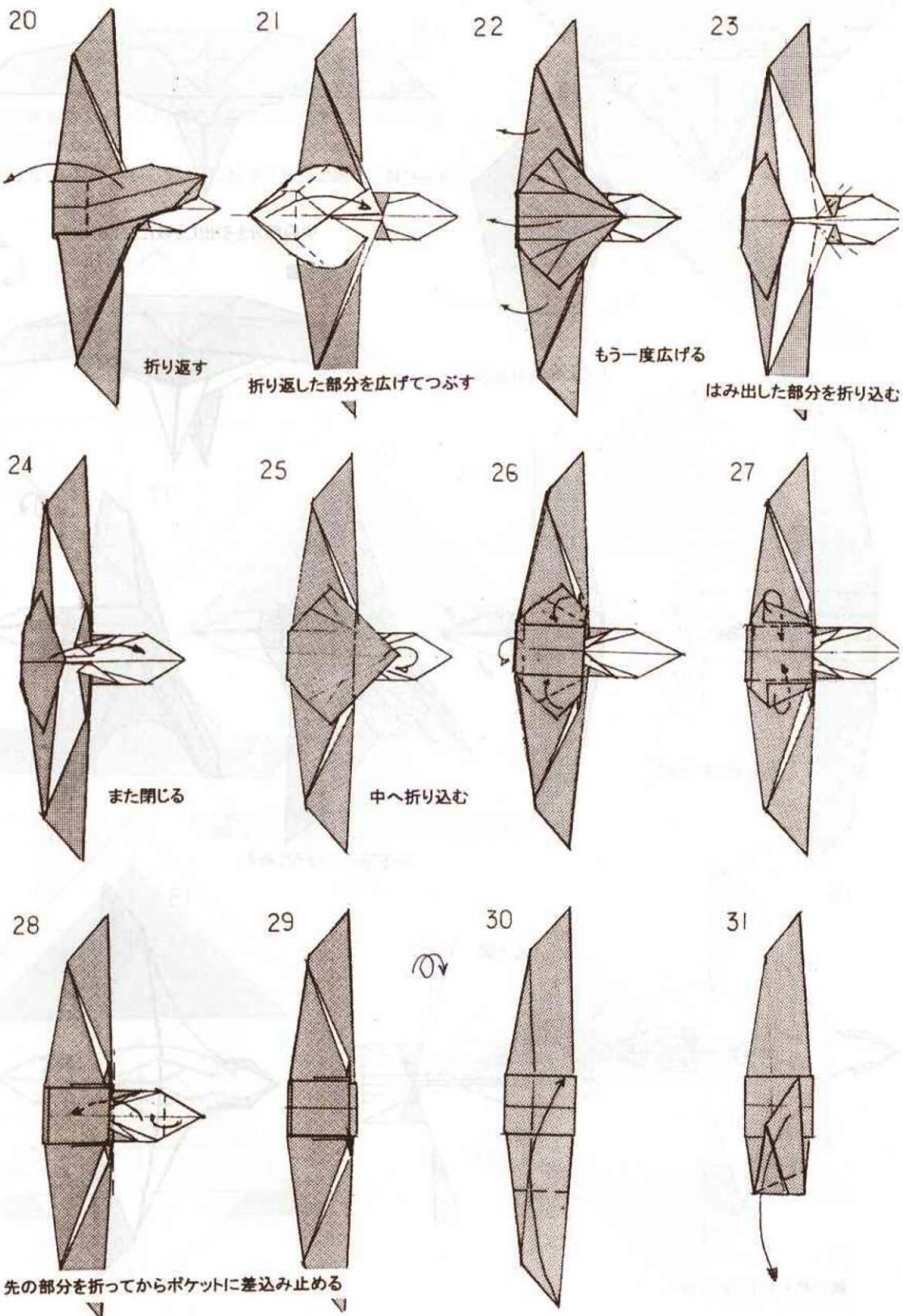
翼の部分を少し前に振る

拡大図

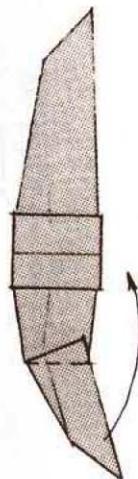


19

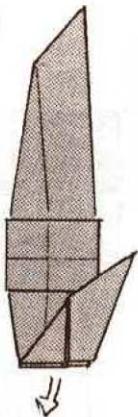




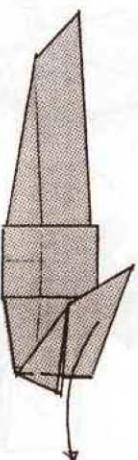
32



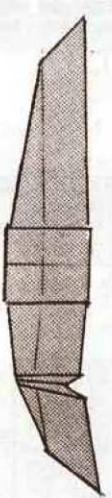
33



34



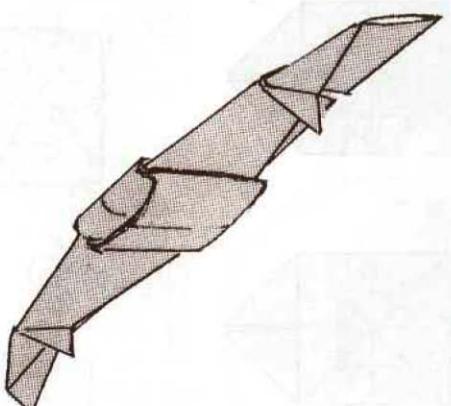
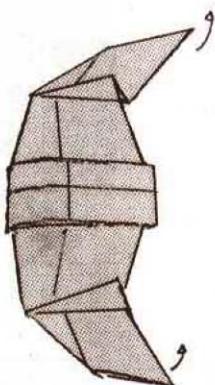
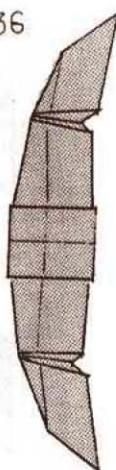
35



中の部分を引き出す

反対側も同様に折る(30~34)

36

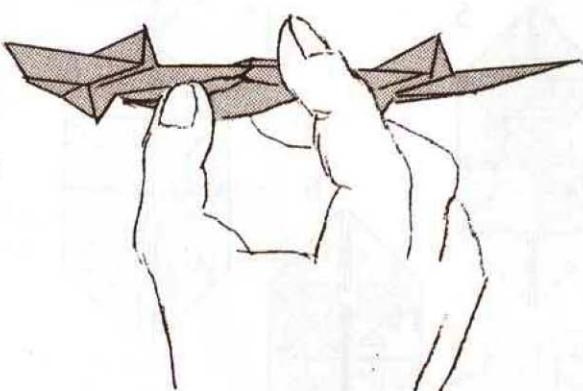


完成

正面図



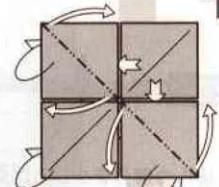
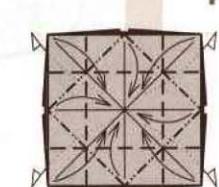
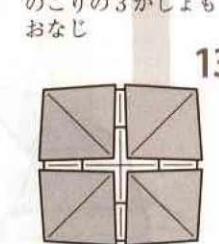
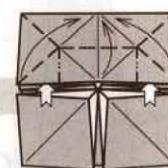
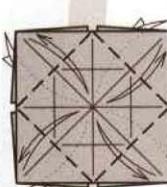
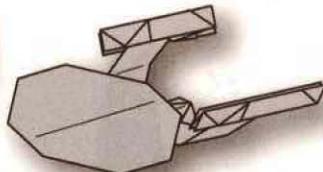
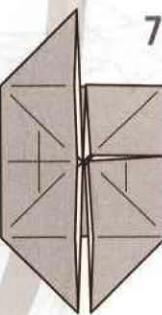
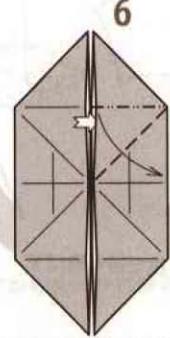
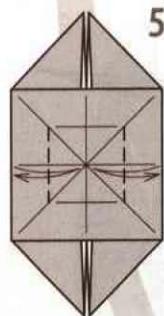
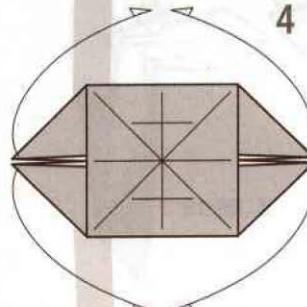
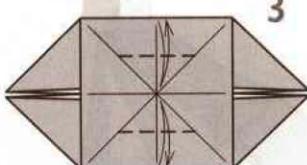
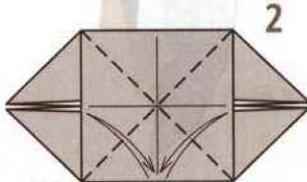
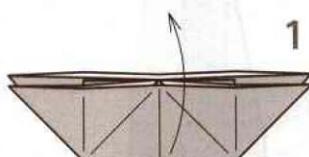
翼は水平に、翼端の後ろの部分を少し上げる



三本の指で持ち飛ばす

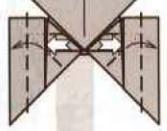
## StarShip

2003.02.17



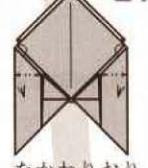
創作：青木 良

22

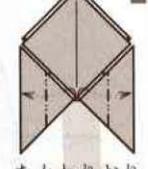


ひらいておりたたむ

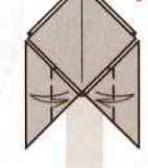
21



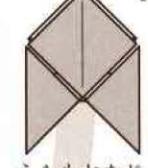
20



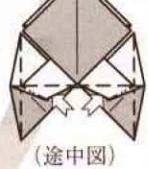
19

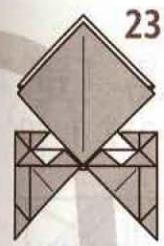


18

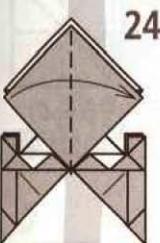


17

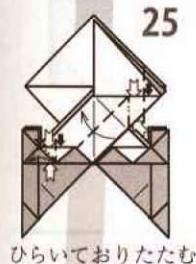




23



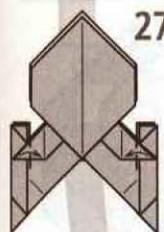
24



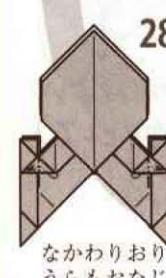
25



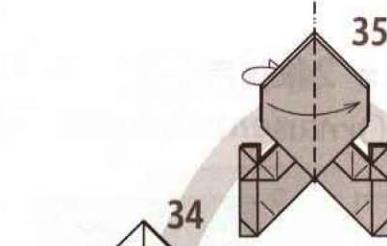
26



27

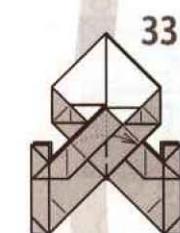


28



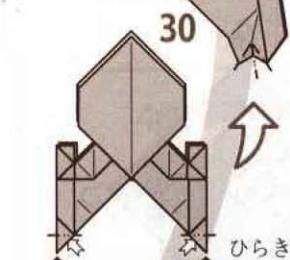
34

35

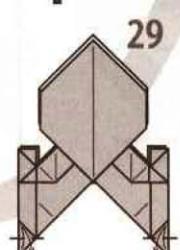


32

31  
(部分図)

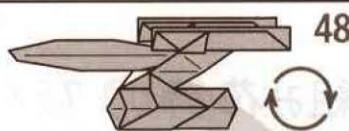


30

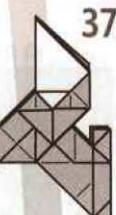


29

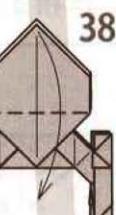
ひらきながら  
おしこむ



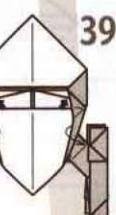
36



33



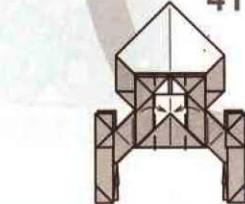
38



39



40



41



37



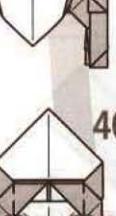
46



45



44



43



42

なかわりおり  
うらもおなじ

うらもおなじ

のこりの  
3かしょも  
おなじ

ひらいておりたたむ

のこりの  
3かしょも  
おなじ

ひらきながら  
おしこむ

ひらいておりたたむ

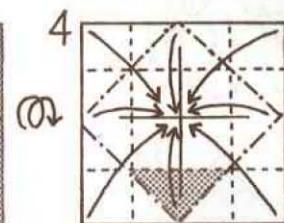
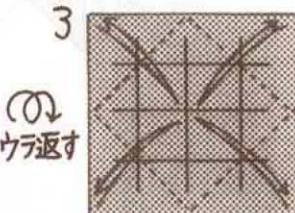
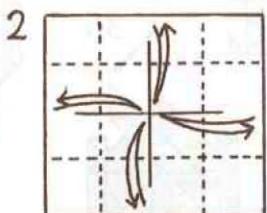
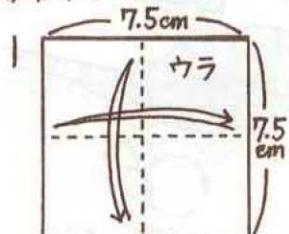
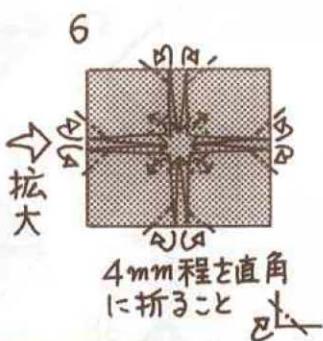
なかからひきだす

りったいにする

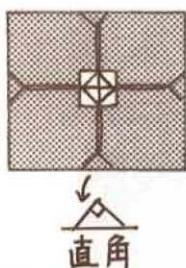
なかわりおり  
うらもおなじ

[2枚組み花飾り] 7.5×7.5cm 2枚使用

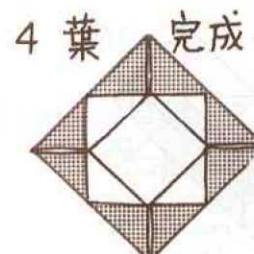
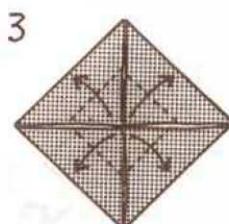
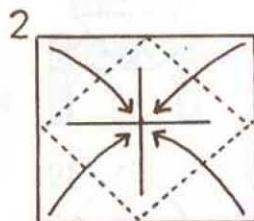
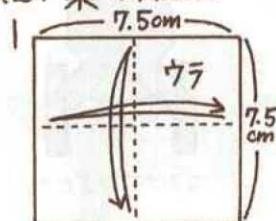
(A)花(赤・ピンク系) Flower Ornament(2pieces)

中島 進  
H15(2003). 1. 10. $4 \times 4 = 16$ マスをつくる

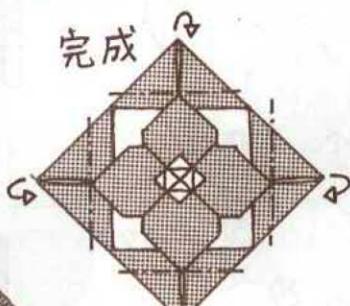
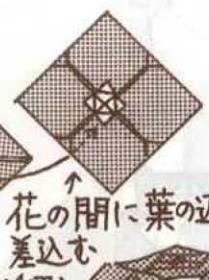
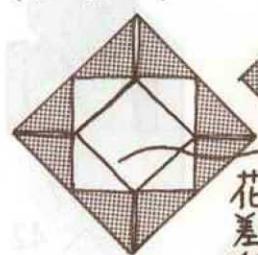
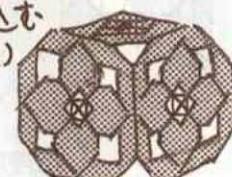
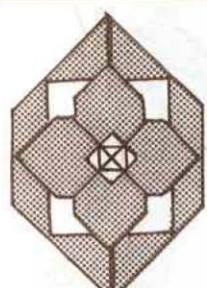
7花完成

横の三角部分の頂点を中心に寄せ  
せる

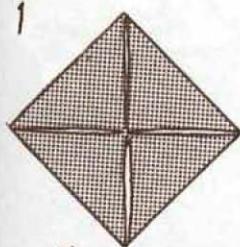
(B)葉(緑系)



(組合せ)

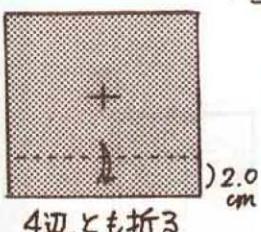
花の間に葉の辺を  
差込む  
(4辺)ウラに折ると  
6枚で「クス王」か  
できるこの形もよい  
(飾りとして)

[箱] 7.5×7.5cm  
 (フタ) 15×15cm 1枚} 計3枚  
 2枚}

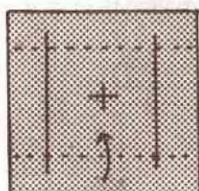


葉の3より  
(座ぶとん折)

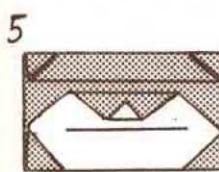
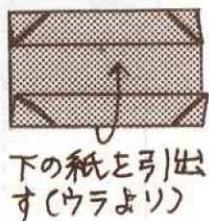
①  
②



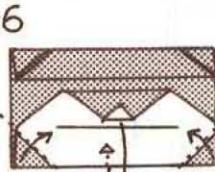
3



4



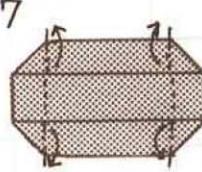
5



6

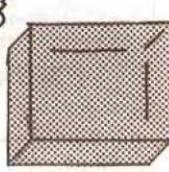
ウラに底す  
(上側も同じ折り)

7

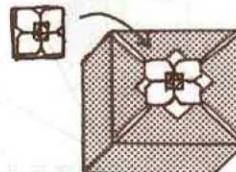


広げて箱  
にする

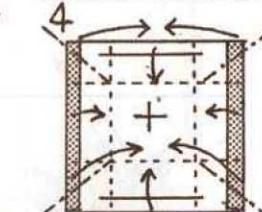
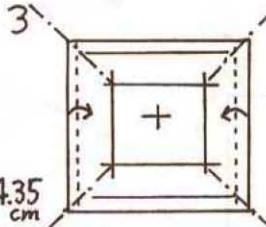
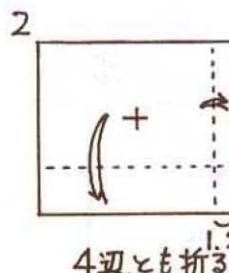
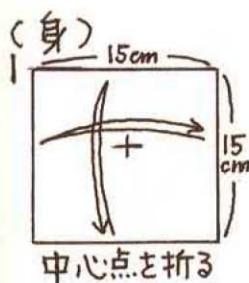
8



9 フタ完成 ①



中に花を入れる

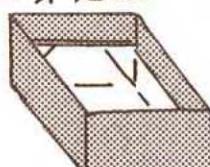


箱の形にする

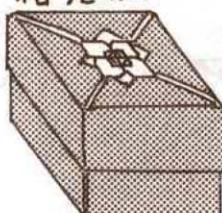


ういている所は  
のり付けする

6 身完成



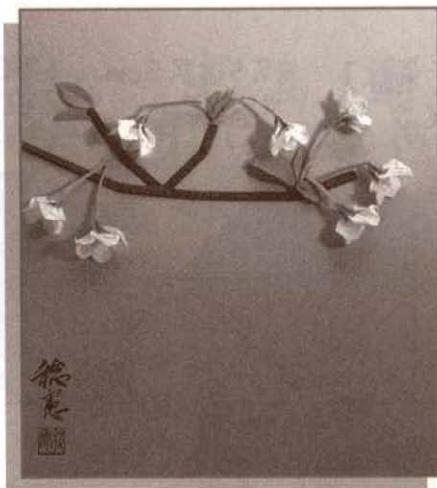
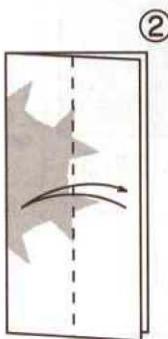
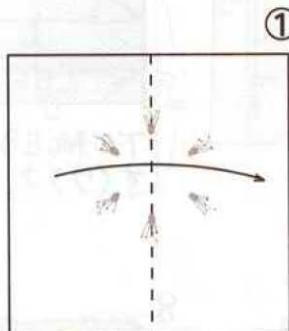
箱完成



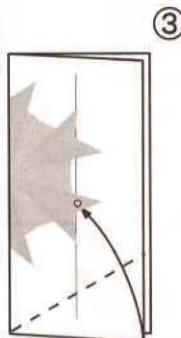
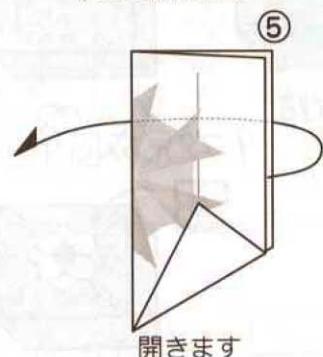
フタと身を合わせ完成

# 桜 田中稔憲・作・図

花弁 5cm 角くらいの紙で折ります

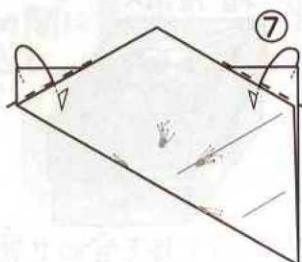
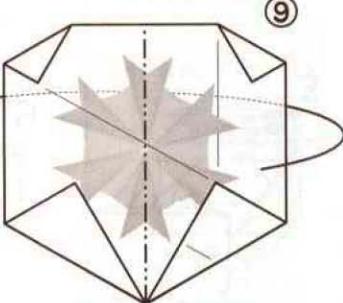
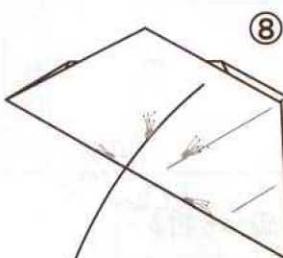
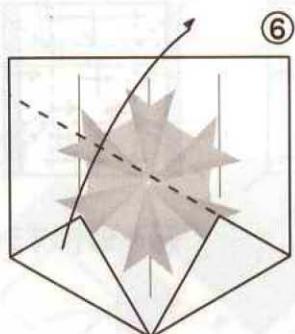


中表で始めます



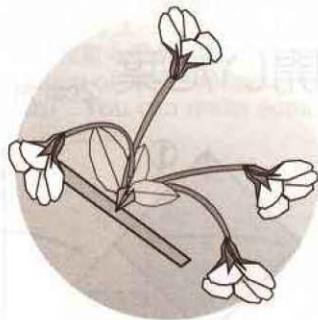
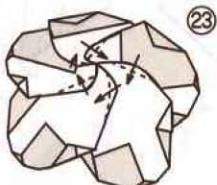
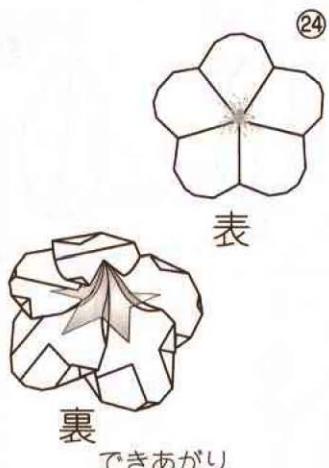
開きます

裏も同様に

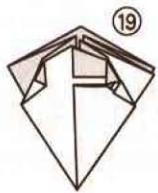
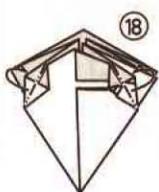


開きます

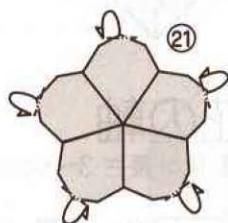
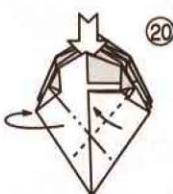
以下印刷した模様を  
省略し、表面を塗り  
で示します



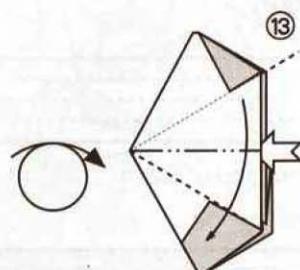
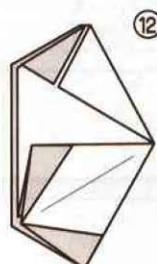
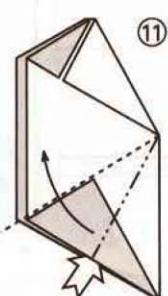
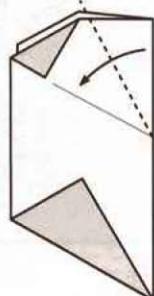
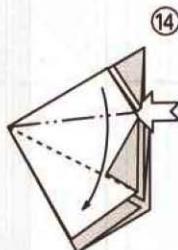
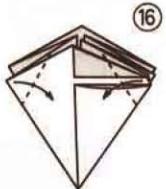
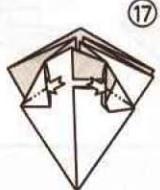
中途を折って萼が  
出るようにします



あとの3カ所も同様

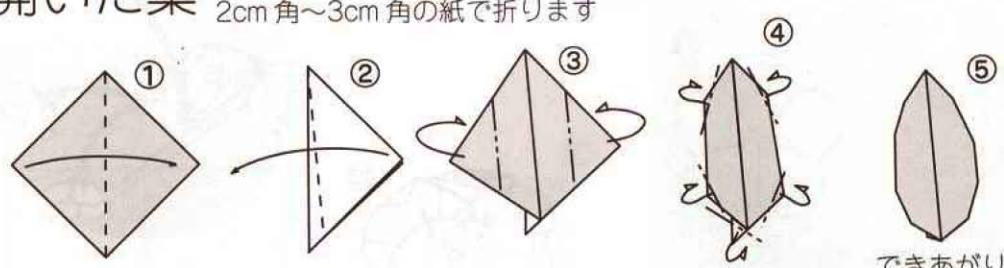


ねじり折りして  
ひろげます



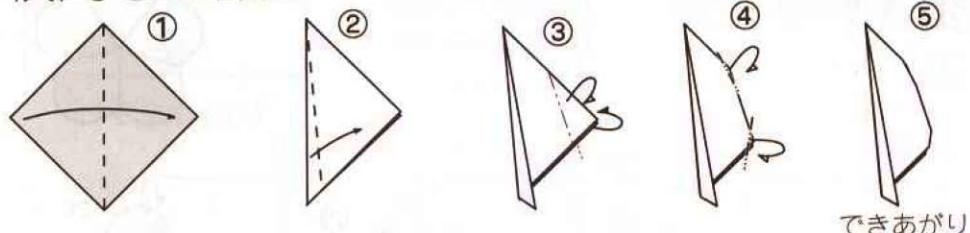
## 開いた葉

2cm 角～3cm 角の紙で折ります



できあがり

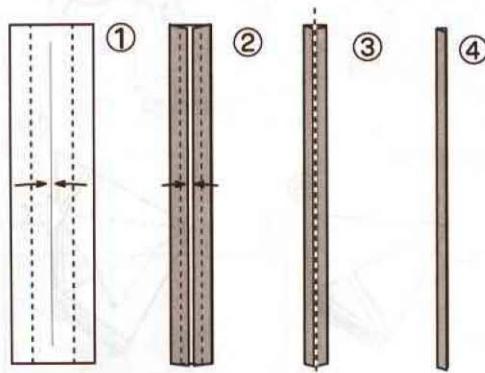
## 横向きの葉



できあがり

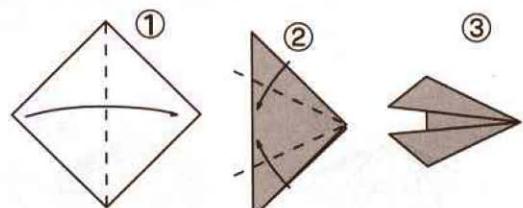
## 花の軸

幅 1cm 長さ 3～5cm の紙で折ります

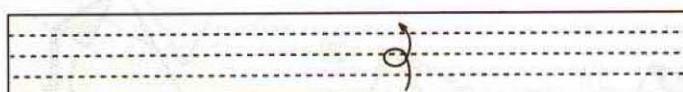


## 花の軸のつけね

1cm 角の紙で折ります



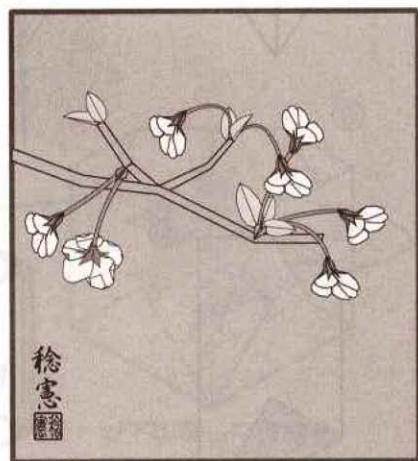
## 枝



4つ折りにします



自由に折り曲げます



稔憲

このように飾ります

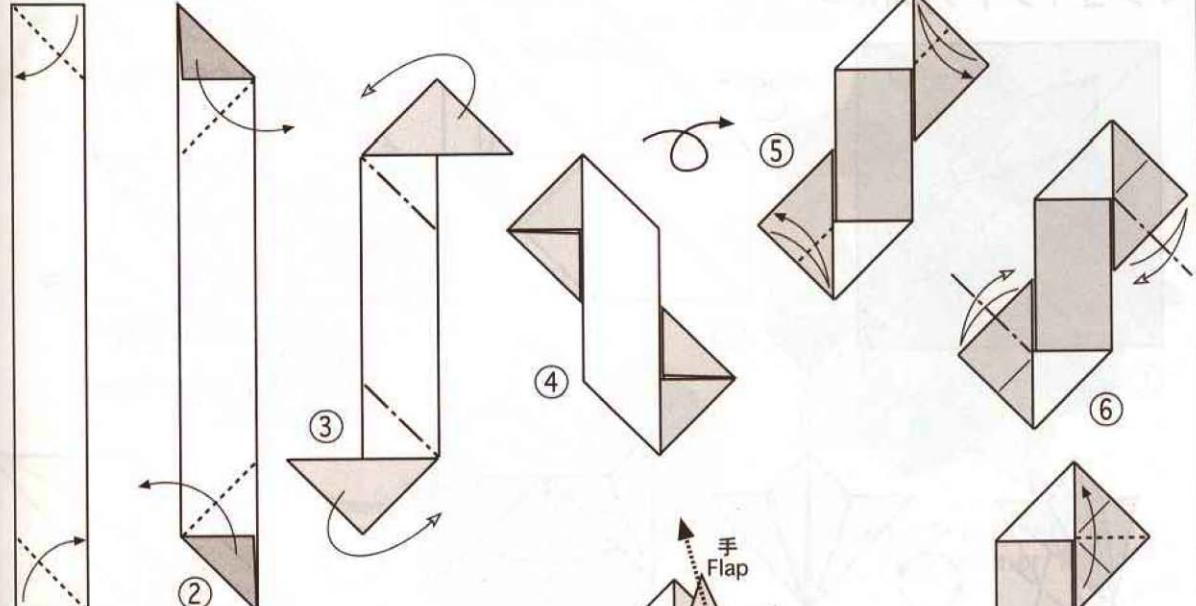
# ホイップ / Whip

川村みゆき

©2003 Miyuki Kawamura

Created 20030413  
Drawing 20030704

「第8回コンベンション折図集」に載せた「セレス」という作品のバリエーションの1つです。6枚、12枚、30枚組み等が可能です。  
"Whip" is a variation of "Celes(Origami Tanteidan 8th Convention)". You can make some models with 6,12, and 30 units.



①  
長方形用紙  
Rectangular  
1:8

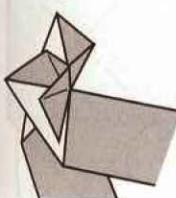
ポケット (下の袋)  
Pocket  
(the under one)

手  
Flap

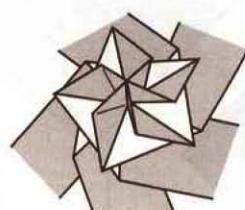
ポケット (下の袋)  
Pocket  
(the under one)

ユニットできあがり  
The Whip unit

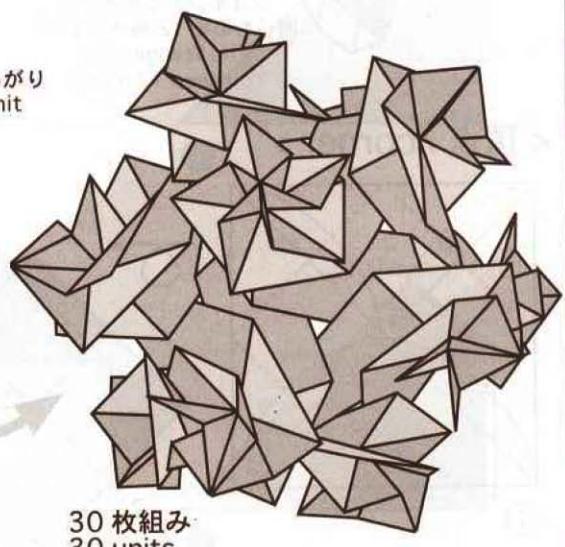
差し込む  
Insert



上から見たところ  
Top view



5枚組んだところ  
5 units



30枚組み  
30 units

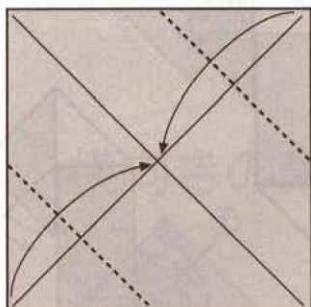
# ウェッジ / Wedge

川村みゆき  
©2003 Miyuki Kawamura

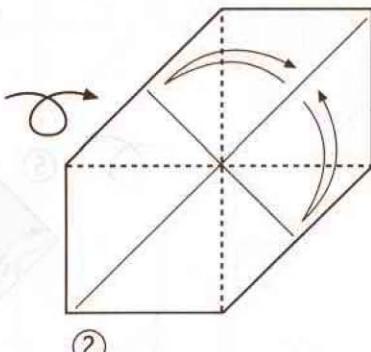
Created 2003040  
Drawing 20030704

ジョイントと頂点で合計 20 枚使います。同じ大きさの正方形用紙を使って下さい。  
You need 20 square pieces of paper, all the same size.

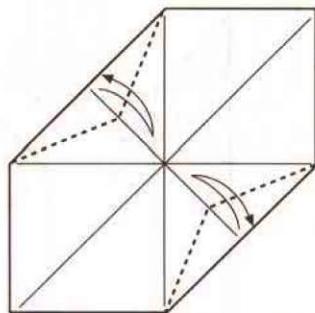
## &lt; ジョイント / joint &gt;



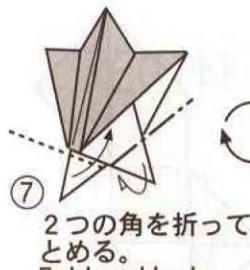
①



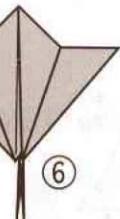
②



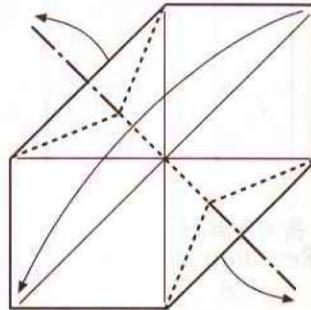
③ 上の紙だけに折り目をつける。  
Fold only upper layer and unfold.



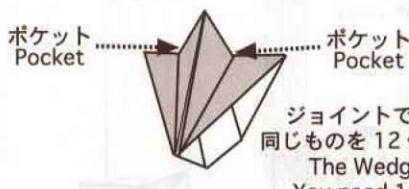
2つの角を折ってとめる。  
Fold and lock the flaps.



左右を引き寄せ、中で2枚の三角形を重ねて立体化する。  
Make two flaps inside.  
The model is no longer flat.



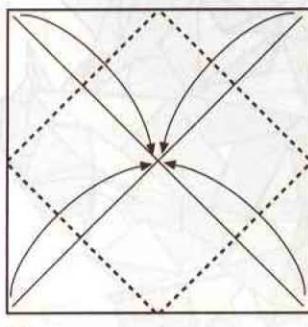
④



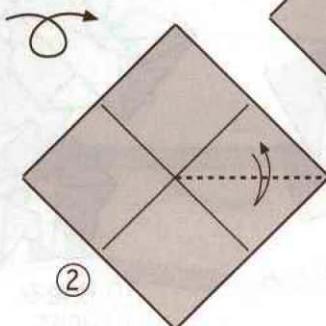
ジョイントできあがり  
同じものを 12 個作ります。  
The Wedge joint  
You need 12 joints.

角を 1 つだけ開く。  
Unfold one corner

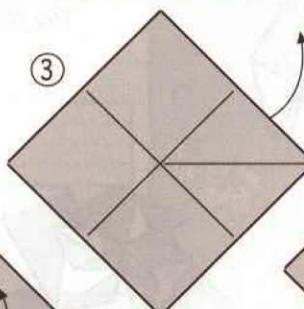
## &lt; 頂点 / corner &gt;



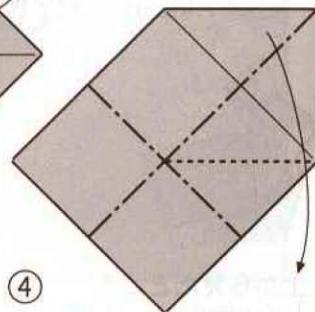
①



②

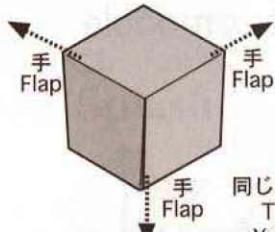
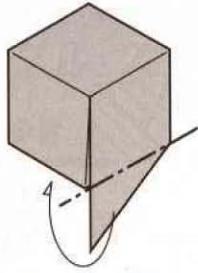


③



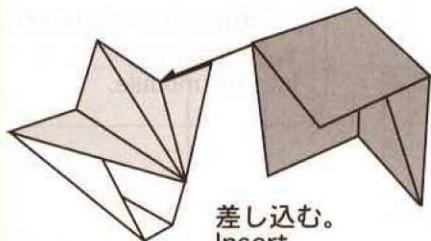
④

引き寄せて立体化する。  
The model becomes 3-D.

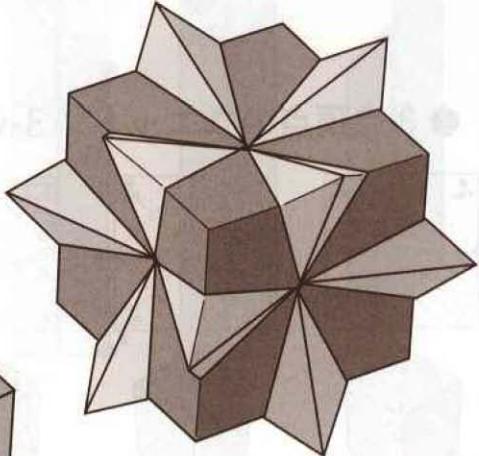
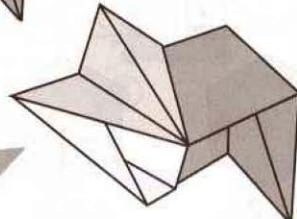


⑤ 角を中へ入れる。  
Tuck the flap inside.

頂点できあがり  
同じものを8個作ります。  
The Wedge corner  
You need 8 corners.

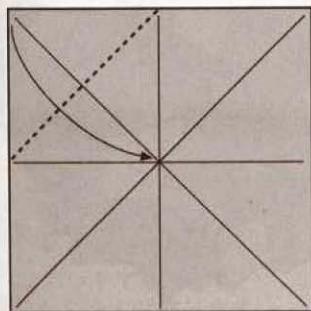


差し込む。  
Insert

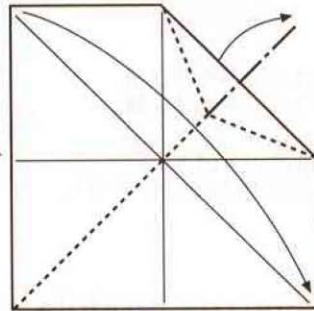


ジョイント/joint: 12  
頂点/corner: 8

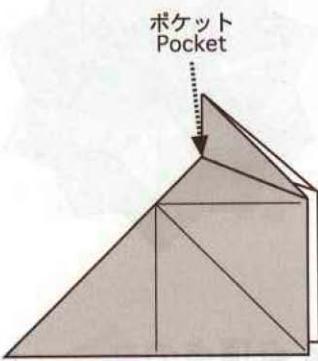
### <発展 /for more fun >



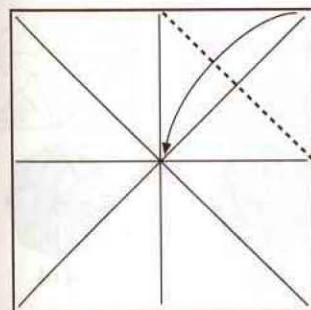
1



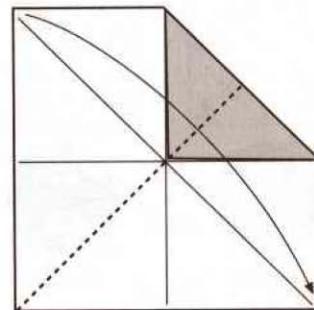
2



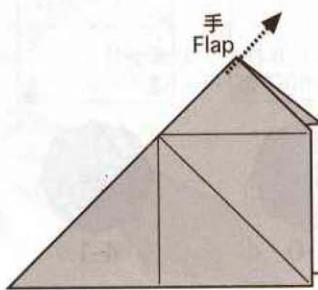
3



1

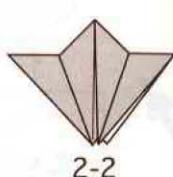
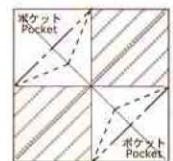
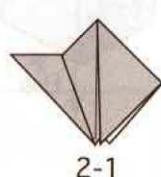
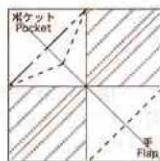
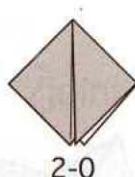
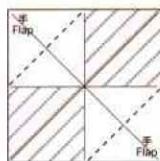


2

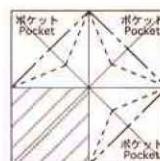
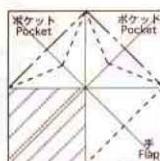
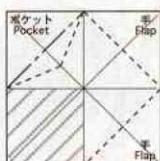
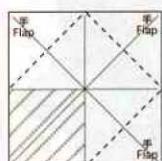


3

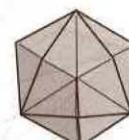
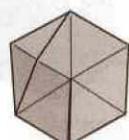
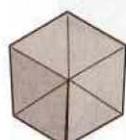
## ● 2点頂点のユニット / 2-vertex module



## ● 3点頂点のユニット / 3-vertex module

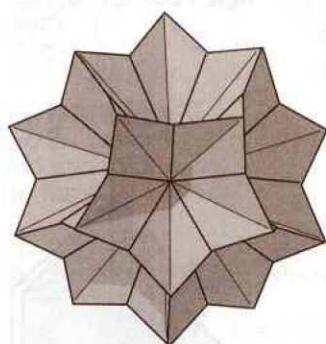


/// の部分は中へ折り込む。  
Tuck the areas "///" into the module.



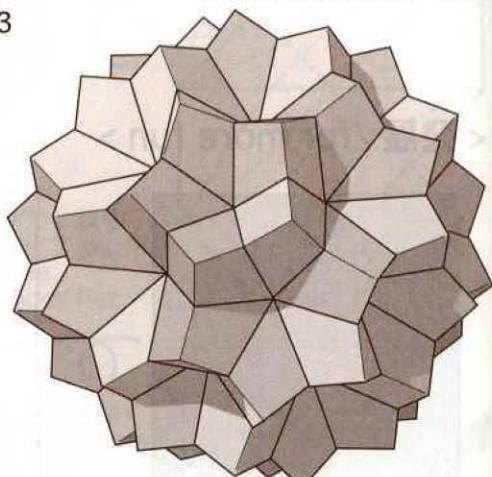
3-1 ユニットが 30 個、  
3-2 ユニットが 30 個。

You need  
30 modules of "3-1"  
and 30 modules of "3-2".

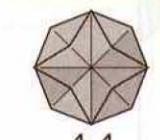
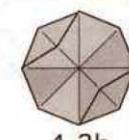
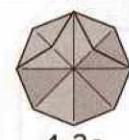
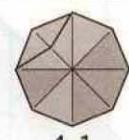
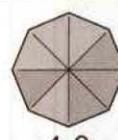
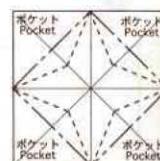
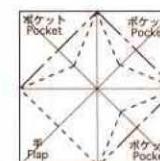
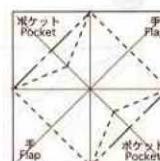
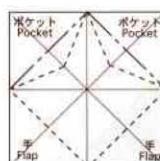
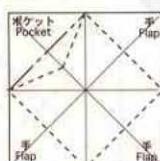
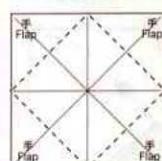


3-1 ユニットが 10 個、  
3-2 ユニットが 10 個。

You need  
10 modules of "3-1"  
and 10 modules of "3-2".



## ● 4点頂点のユニット / 4-vertex module



※ 4-2b ユニットはデビッド・ミッ切尔さんの「ジェミニ」のユニットと同じものです。  
The module of "4-2b" is the same as "Gemini" module by David Mitchell.

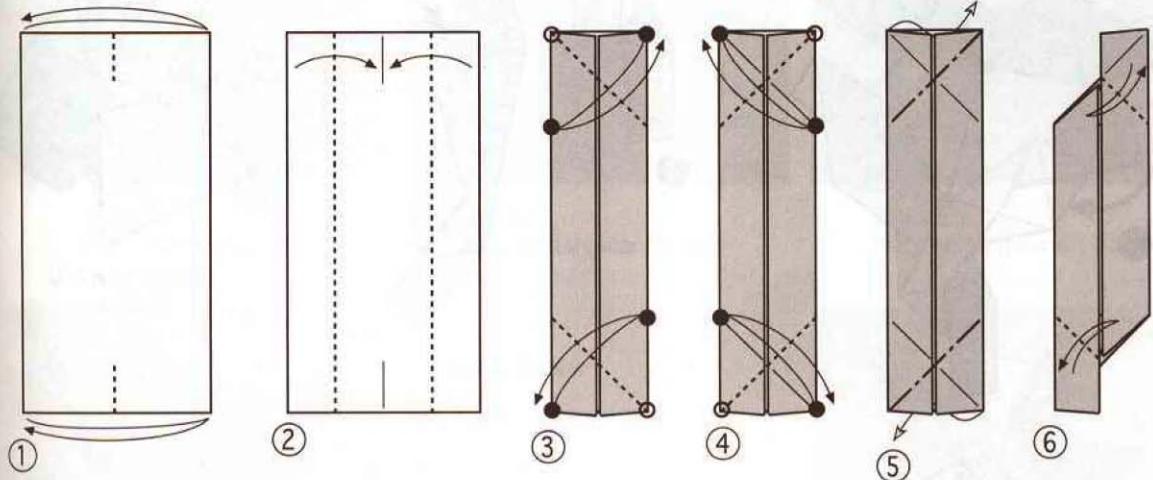
Created 19970221  
Drawing 20030731

第3回折紙の科学国際会議（2001年3月）  
で展示した作品です。

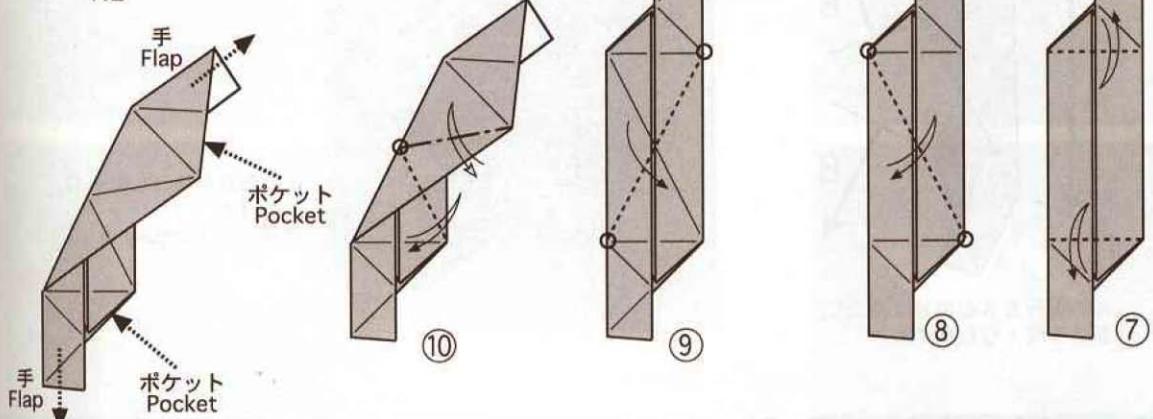
# クリスタル・スプラッシュ /Crystal Splash

川村みゆき

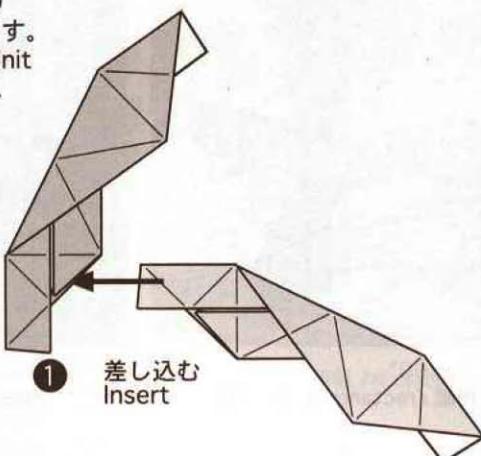
©2003 Miyuki Kawamura



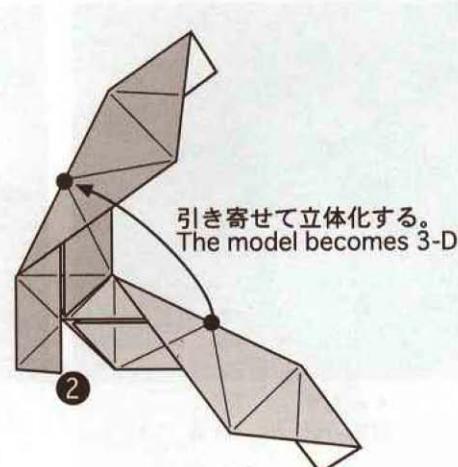
長方形用紙  
Rectangular  
1:2

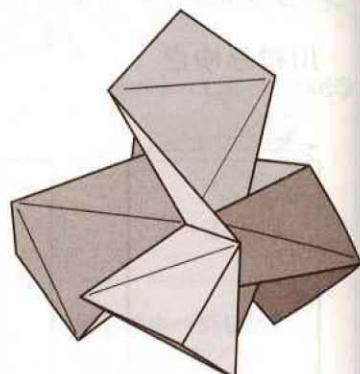
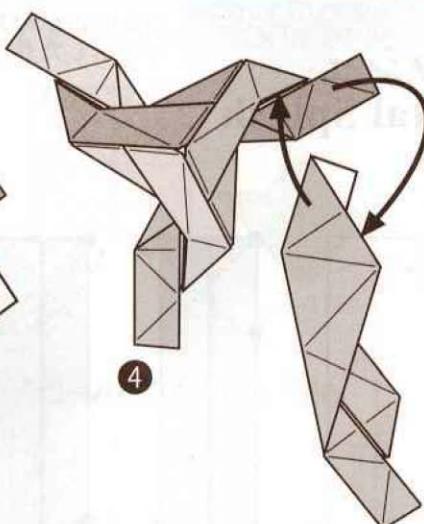


ユニットできあがり  
同じものを6個作ります。  
The Crystal Splash Unit  
You need 6 joints.

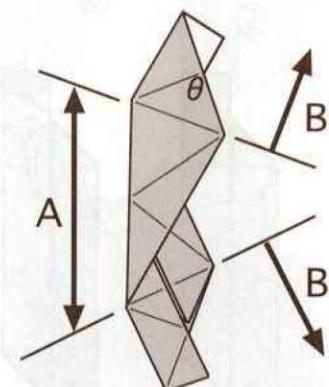


引き寄せて立体化する。  
The model becomes 3-D.





6枚組できあがり  
6 Units



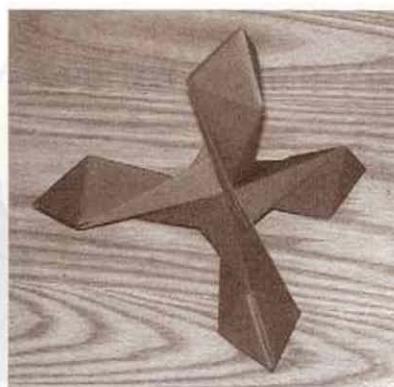
A の部分と B の部分は独立に長さを変えられます。



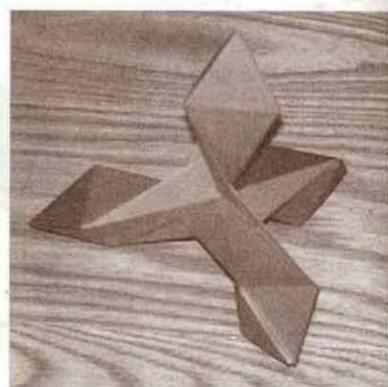
B の部分を伸ばしたもの。  
 $\theta = 36^\circ$   
用紙 /rectangular 6 : 14.5



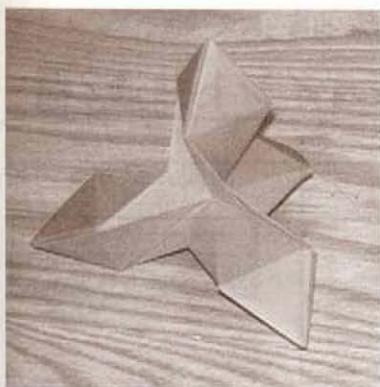
$\theta = 60^\circ$   
用紙 /rectangular 6 : 18



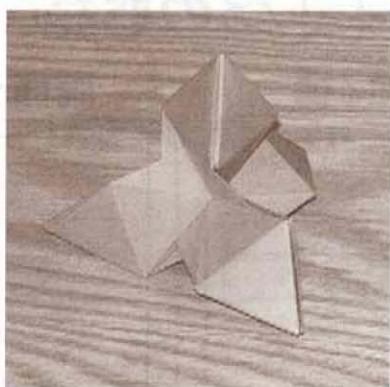
$\theta = 60^\circ$   
用紙 /rectangular 6 : 16



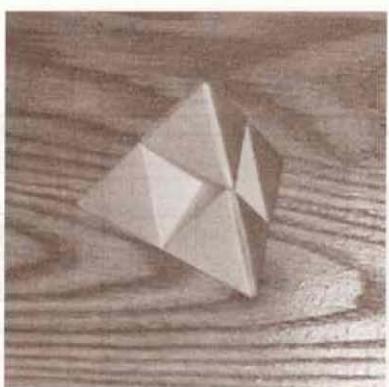
$\theta = 60^\circ$   
用紙 /rectangular 6 : 14



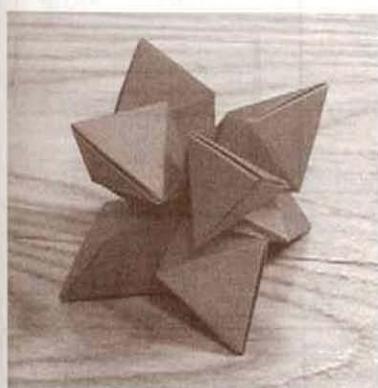
$\theta = 60^\circ$   
用紙 /rectangular 6 : 12



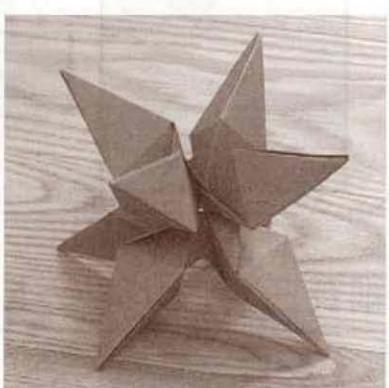
$\theta = 60^\circ$   
用紙 /rectangular 6 : 10



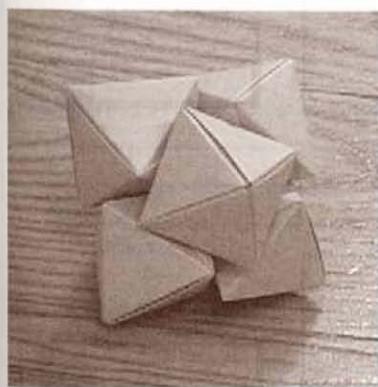
$\theta = 60^\circ$   
用紙 /rectangular 6 : 8.2



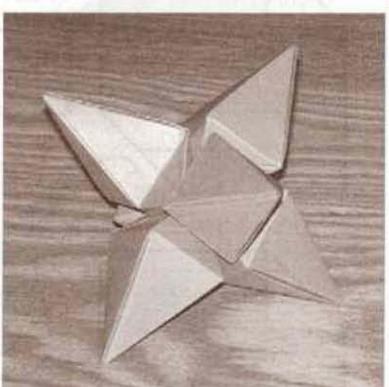
12枚組 /12units  
 $\theta = 60^\circ$   
用紙 /rectangular 6 : 9.8



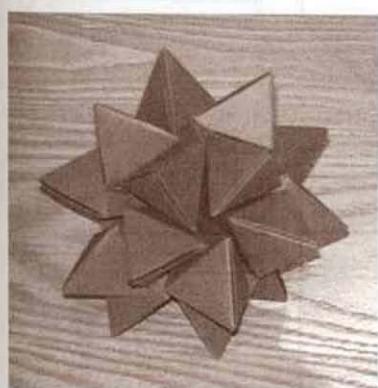
12枚組 /12units  
 $\theta = 36^\circ$   
用紙 /rectangular 6 : 14.5



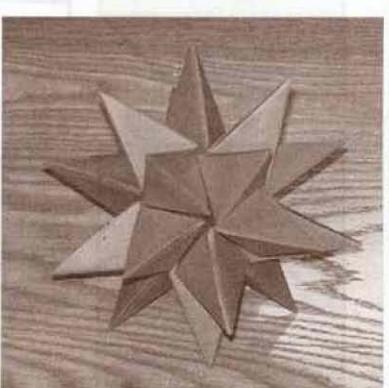
12枚組 /12units  
 $\theta = 60^\circ$   
用紙 /rectangular 6 : 9.8



12枚組 /12units  
 $\theta = 36^\circ$   
用紙 /rectangular 6 : 14



30枚組 /30units  
 $\theta = 60^\circ$   
用紙 /rectangular 6 : 11

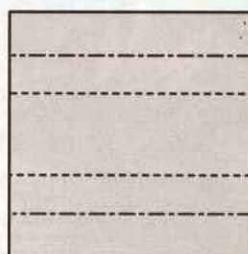


30枚組 /30units  
 $\theta = 36^\circ$   
用紙 /rectangular 6 : 14

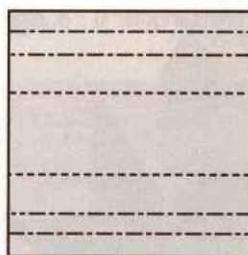
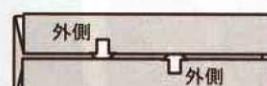
# 1/3のおび

山田 勝久

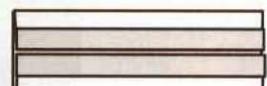
## 片面ジョイント共通2種



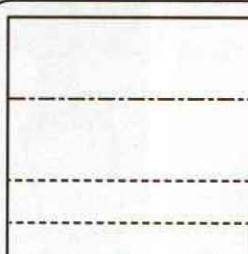
片面Aジョイント



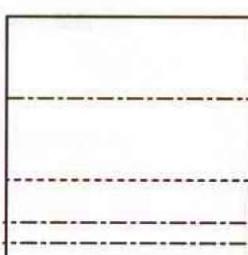
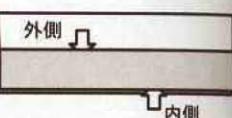
片面Bジョイント



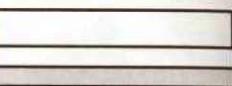
## 両面ジョイント共通2種



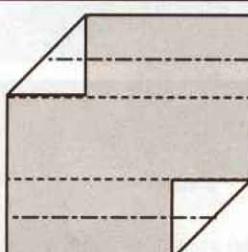
両面Aジョイント



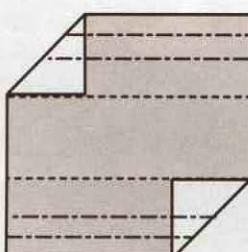
両面Bジョイント



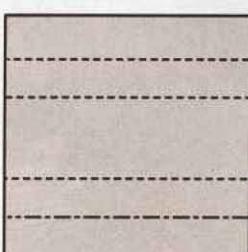
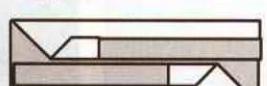
## 細長三角形ユニット用3種



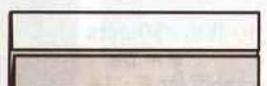
だいたい正三角形ユニット可  
片面A-2ジョイント



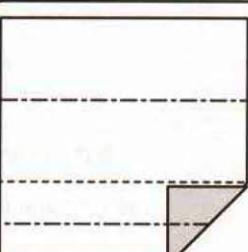
片面B-2ジョイント



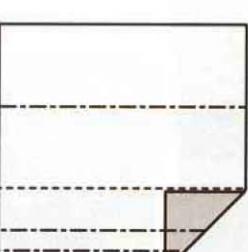
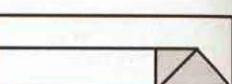
片面Aの変形  
ジョイント



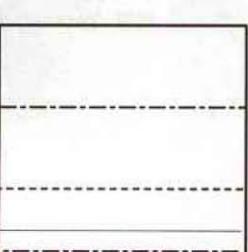
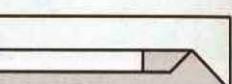
## 12枚キューブユニット用3種



両面A-2ジョイント



両面B-2ジョイント



両面Bの変形  
ジョイント

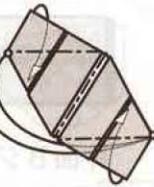
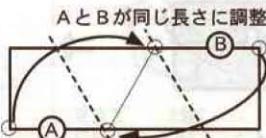
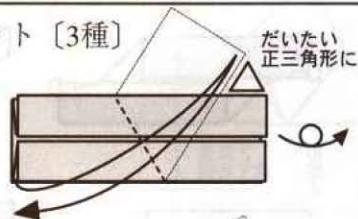
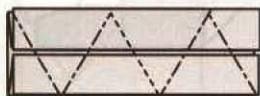


## 1/3のおびユニット

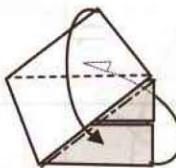
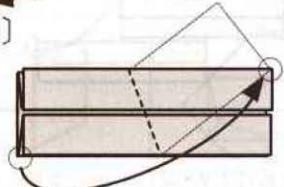
山田 勝久

## 片面ジョイント [片面共通2種 細長三角形ユニット用3種]

だいたい正三角形ユニット [3種]

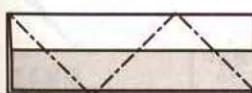


細長三角形ユニット [5種]

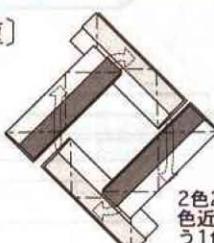
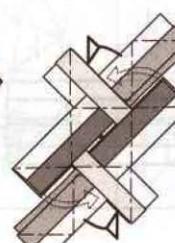


## 両面ジョイント [両面共通2種 12枚キューブユニット用3種]

12枚キューブユニット [5種]



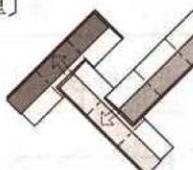
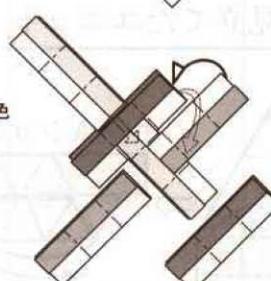
3色×4枚組

2色2枚づつ  
色近づけても  
う1色は離す色つきのおび  
のカドに3色  
めのおびを入  
れる

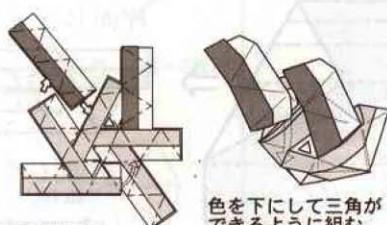
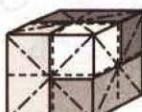
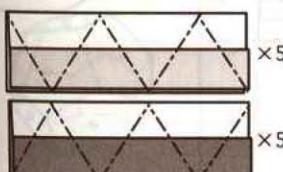
6枚キューブユニット [2種]



3色×2枚組

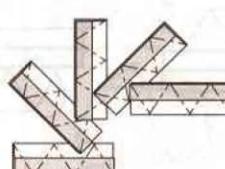
3色のおびの色  
を外にして組  
む同じ色のおび  
で色をずらし  
て組む

6枚キューブ星ユニット [2種]

6枚キューブ  
ユニットに  
組みおりす  
じをかえる色を下にして三角が  
できるように組むだいたい正三角形の  
10枚組20面体ユニット [2種]

×5

×5



同じ形のおびの色を外にして5枚組む

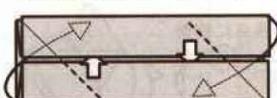
布施知子さんの20面体10枚組1/3の作品正三角が4個つながった帯のユニット  
でしたので、だいたい正三角形のユニットで組んでみました。

## 1/3のおびユニットの仲間

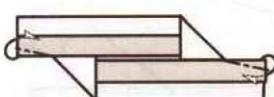
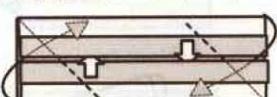
山田 勝久

## そのべ風キューブユニット [2種]

片面Aジョイント

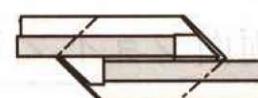
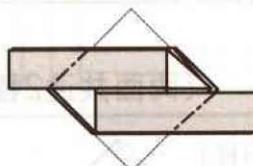
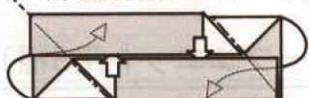


片面Bジョイント

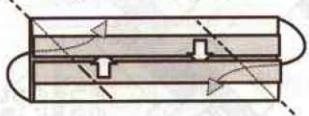


## カドのかけたキューブユニット [3種]

片面A-2ジョイント左右逆

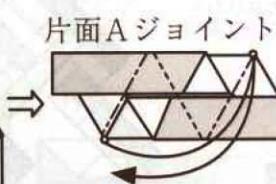
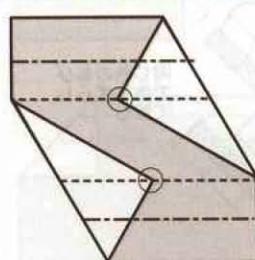
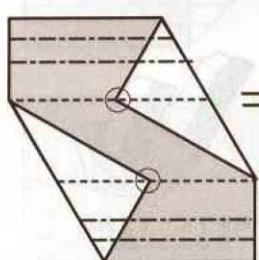
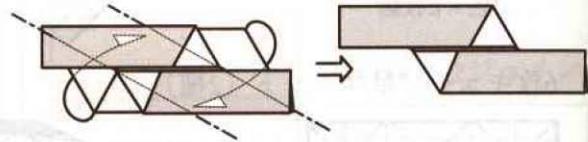
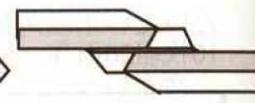
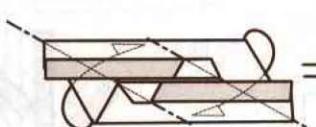
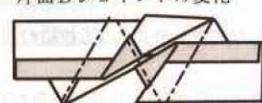


片面Bジョイント



## 正三角形に見立てたユニット [3種]

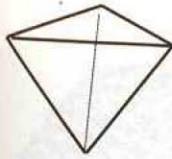
## あみ込み風ユニット [2種]

正三角形に見立てた  
ユニット片面Cジョイント  
片面Bジョイントの変化

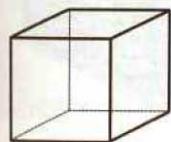
## 1/3のおびユニットのおもな組み合わせ

山田 勝久

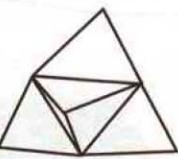
ベースになる多面体

正4面体  
正3角形×4

キューブのユニット

立方体  
正方形×6

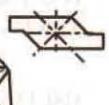
三角形のユニット

見立て  
細長三角  
だいたい  
合計  
3種  
5種  
3種  
11種  
×6枚

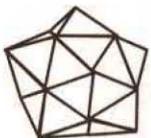
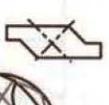
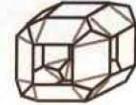
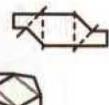
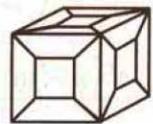
三角形ユニット

見立て  
だいたい  
合計  
3種  
3種  
6種  
×5枚カドのかけた  
キューブユニット [3種]

6枚組



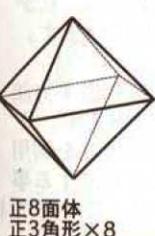
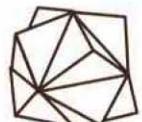
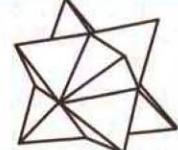
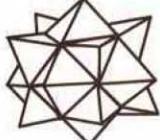
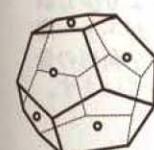
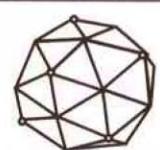
12枚組

見立て  
だいたい  
合計  
3種  
3種  
6種  
×15枚

細長三角形ユニット



細長三角 5種×6枚

だいたい正三角形の  
10枚組20面体ユニット [2種]正8面体  
正3角形×8そのべ風 2種×6枚  
12枚キューブ5種×12枚  
6枚キューブ2種×6枚  
合計 9種  
 $6+1-7=6+1-7$  星2種見立て  
細長三角  
だいたい  
合計  
3種  
5種  
3種  
11種  
×12枚立方8面体  
正方角形×6  
+ 正3角形×8見立て  
細長三角  
だいたい  
合計  
3種  
5種  
3種  
11種  
×24枚正20面体  
正3角形×20そのべ風 2種×30枚  
12枚キューブ5種×60枚  
6枚キューブ2種×30枚  
合計 9種見立て  
細長三角  
だいたい  
合計  
3種  
5種  
3種  
11種  
×30枚正12面体  
正5角形×12見立て  
細長三角  
だいたい  
合計  
3種  
5種  
3種  
11種  
あみ込み風2種  
×30枚  
×30枚

細長三角 5種×7枚



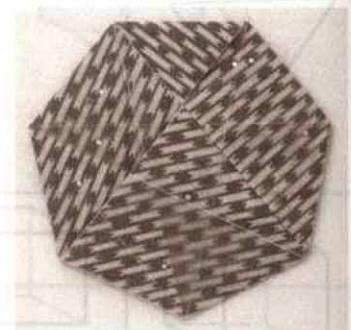
5+5枚

# 7角形の畳紙 I, II

創作／作図  
霞誠志

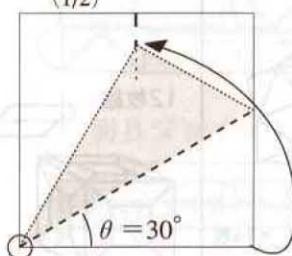
By Kasumi

折り紙では藤田文章氏の方法により正確な7角形の作図が可能です。7角形を含む正多角形の作図法についてはロベルト・ゲレトシュレーガー著『折り紙の数学』(※.1)でも詳しく解説されています。こうした数理的な方面に関しては、私の出る幕はありませんので・・・ここでは～比較的簡単に・綺麗に折れる手順を探す方向でアプローチしてみたいと思います。

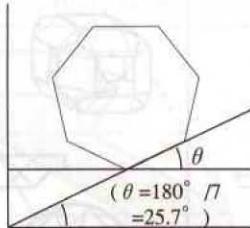


(図.1)

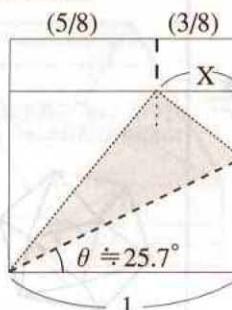
(1/2)



(図.2)



(図.3)



## <角の等分割について>

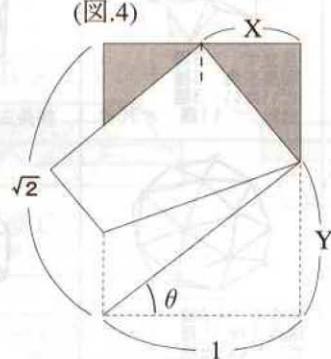
多角形を折るには必要な角度を得る必要が出てきますので、私が使っている角の等分割方法をいくつか紹介したいと思います。

(1) 良く知られている(図.1)のような $30^\circ$ を折り出す方法を応用すると、角の7等分や9等分が比較的簡単に出来ます。まず、7角形を折るために(図.2)  $\theta = 180^\circ / 7$ の角度を利用するには(図.3)のように規準となる折筋を $X = 3/8$ にする事で $\theta = 90^\circ \times 2/7$ の近似値を得ることが出来ます。この折り方だと誤差は、角度にして $-0.06^\circ$ となります。

また $X = 7/9$ にすると $\theta = 90^\circ \times 3/7 = 38.6^\circ$ （誤差は $+0.01^\circ$ ）を得ます。

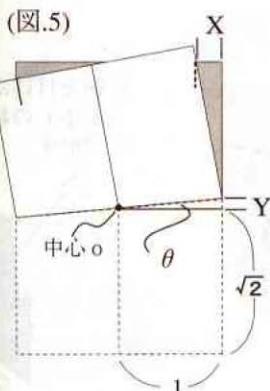
(2)  $X = 15/64$ では9等分  $|\theta = 90^\circ \times 2/9 = 20^\circ$ （誤差は $+0.02^\circ$ ）、 $X = 6/7$ では11等分  $|\theta = 90^\circ \times 5/11 = 40.9^\circ$ （誤差は $-0.02^\circ$ ）が可能です。  
<ここで辺を7等分、9等分するにはどうしたら良いのか分からぬ方もいると思います。そんな方は辺や角の等分割について、ロバートラングさんが[ラング博士の役に立つ幾何学～比を折る]（探偵団新聞55号～60号）の中で詳しく書かれていますので参考にしてみて下さい>

(図.4)



(3) (図.4)のようにして $X = 1/2$ として、芳賀第一定理折り(※.2)を $\sqrt{2}$ 長方形に対して行うと7等分  $|\theta = 90^\circ \times 3/7$ （誤差は $-0.07^\circ$ ）を得ることができます。

このほうが $7/9$ 方法よりも少し誤差が大きいですが・・・簡単に7等分出来るので7角形の畳紙Iではこちらを使っています。



(4)これまでの2つの方法と違って用紙の中心から分割するには  
(図.5)のようにして中心点を通り、Xに沿うように折る  
と1/5等分や1/7等分も出来ます。X=1/4になると拙作の1/7  
角形の畳紙に使った1/7等分（正確には3/4等分ですが）が出来ま  
す。この場合の誤差は-0.07°です。

# ##### # ##### # ##### # ##### # ##### # ##### # ##### # ##### # #####  
※参考：〔誤差の計算に使用した：図3～5のXとYの関係式〕

$$\tan \theta = Y$$

$$(図.3) Y = \sqrt{\frac{X}{2-X}}$$

$$(図.4) Y = \frac{2+X^2}{2\sqrt{2}}$$

$$(図.5) Y = \frac{X}{\sqrt{2} + \sqrt{(1-X^2)+1}}$$

# ##### # ##### # ##### # ##### # ##### # ##### # ##### # ##### # #####

#### <参考文献>

※.1 ロベルト・ゲレトシャレー著、深川英俊訳『折り紙の数学』(森北出版 2002年)

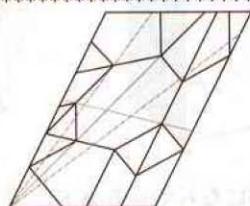
※.2 芳賀和夫著『オカミクス I (幾何图形折り紙)』(日本評論社 1999年)

※.3 伏見康治編著『創造性の文化と科学』(共立出版1989年)

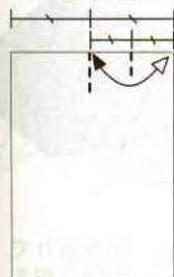
\*\*\*\*\*



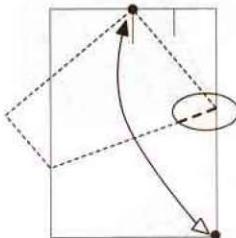
### 7角形畳紙 I < $\sqrt{2}$ 長方形から>



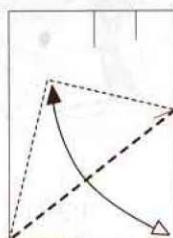
1. 1/2と1/4  
の折筋を付ける



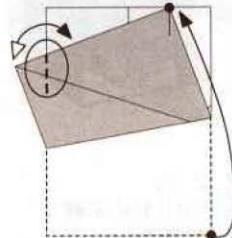
2. ○印の部分にだけ  
折筋を付ける



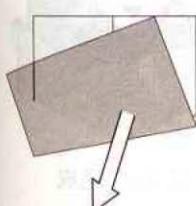
3. 付けた印とカドを  
結ぶ線で折筋を付ける



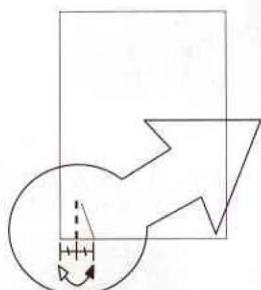
4. ○印の部分(交点)  
にだけ折筋を付ける



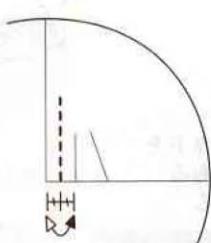
5. 元に戻す



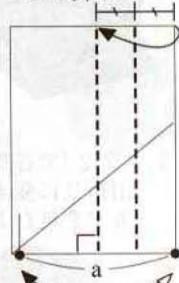
6. 1/2の折筋を  
付ける



7. さらに1/2の  
折筋を付ける



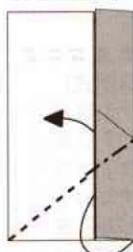
8. つけた折筋に合  
わせて折る



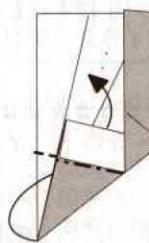
※8. 「a」の幅が完成形の精度に影響します。  
紙の質や厚みにより微調整して下さい。

「7」で付けた折筋に  
合わせて折筋を付ける

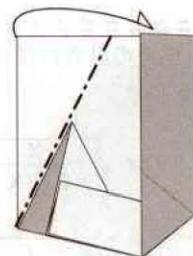
9.  
既にある折筋  
で中割折り



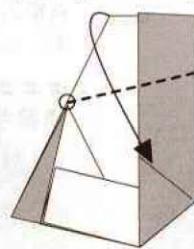
10.  
中割折り



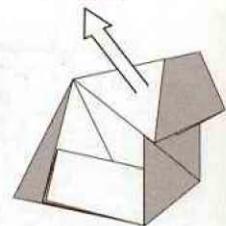
11.  
手前の辺に捕う  
ように折る



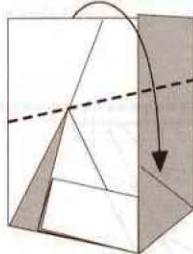
12.  
○印を基点にカドを  
折筋に合わせて折る



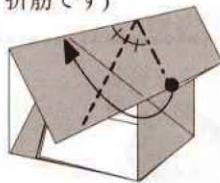
13.  
折筋を付けたら  
「11」の状態  
まで戻す



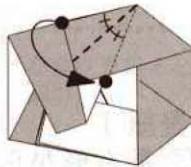
14. 折筋を延長して  
折る



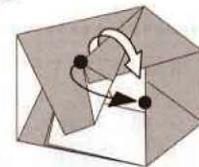
15.  
●印を縁に合わせる  
ように折る  
(山折り線は既にある  
折筋です)



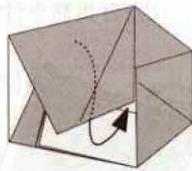
16.  
●印を合わせる  
ように折る



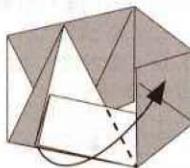
17.  
下の紙を引き出して  
上下を入れ替えながら  
●印を合わせるように  
折る



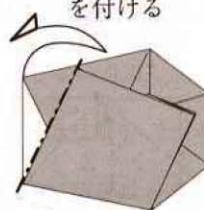
18. 下になっているカド  
を手前に出す



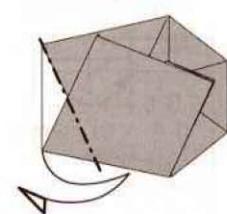
19. カドを反対側へ  
たおす



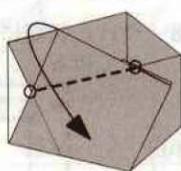
20. 縁にそって折筋  
を付ける



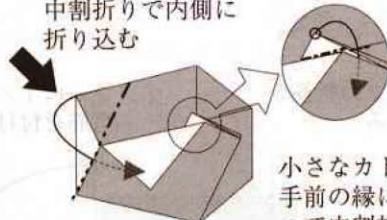
21. 縁にそって折筋  
を付ける



22.  
○印を結ぶ線で  
谷折り

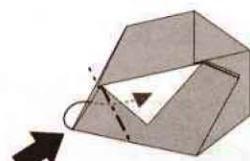


23.  
中割折りで内側に  
折り込む

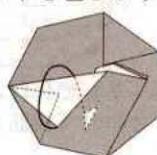


小さなカドは  
手前の縁に添  
って中割折り

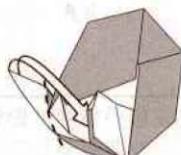
24. 中割折りで  
内側に折る



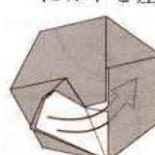
25. 「22」で谷折りしたカドを  
山折りに変えて下にある  
カドを包むように折る



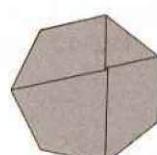
26. 途中図



27. 下にあるポケット  
にカドを差し込む

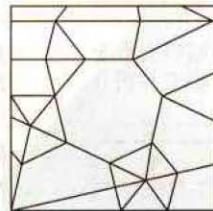


28. 完成

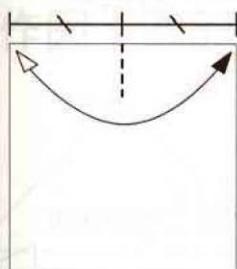




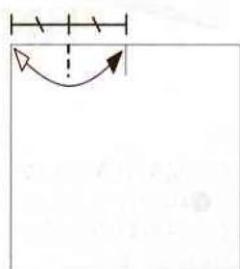
7角形の畳紙Ⅱ  
<正方形から>



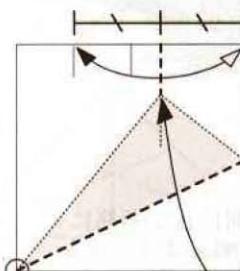
1. 折筋を付ける



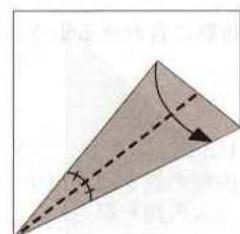
2.



3.

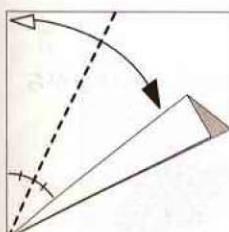


4. 縁に合わせる  
ように折る

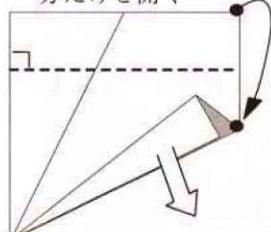


○印を基点に付けた  
折筋にカドが揃うよ  
うに折る

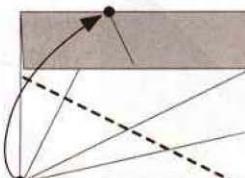
5. 折筋を付ける



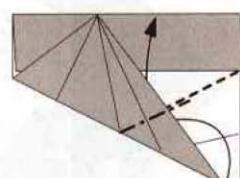
6. ●印を合わせるように  
折ってから下の部分だけを開く



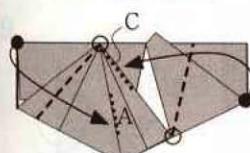
7. ●印を合わせる  
ように折る



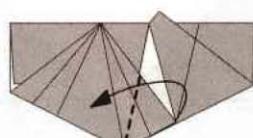
8.「3」で付けた折筋  
で中割折り



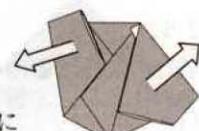
9. ○印を基点にしてカドが  
A、Cと合うように折る  
(次の図を参照)



11. カドを反対側へたおす



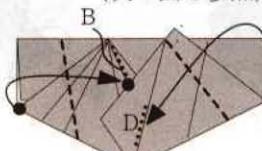
13. 一旦すべて開く

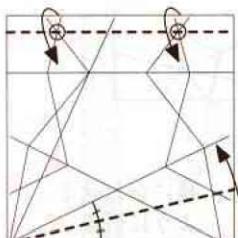


10. 折筋を付けたら戻す



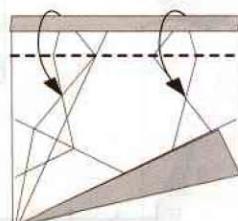
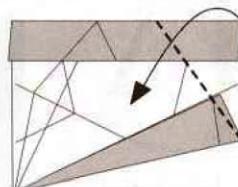
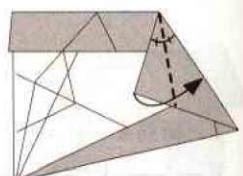
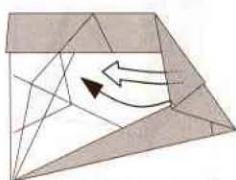
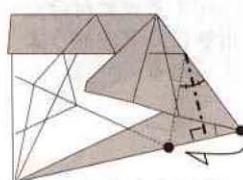
12. B、Dの折筋に  
合うように折る  
(次の図を参照)



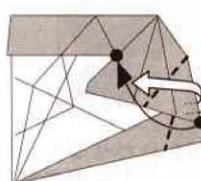
14. 折り筋の交点を  
通る線で谷折り

折筋に合わせるように折る

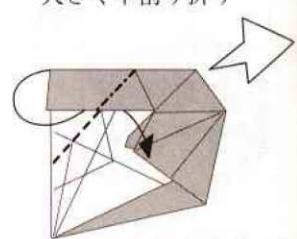
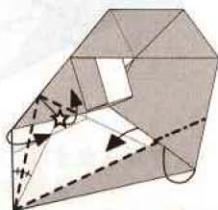
15. 既にある折筋で折る

16. 「12」で折った  
折筋で折る17. 縁に合わせるように  
折る18. 内側の紙を引き出す  
(次の図を参照)19. (裏側にある)折筋に  
合わせるように折る

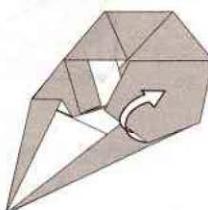
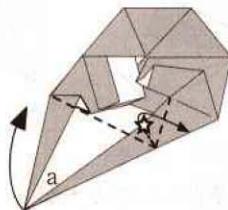
20.

後ろの紙を引き出しながら  
●印が合うように  
折ると谷折線の位置が  
自動的に決まる

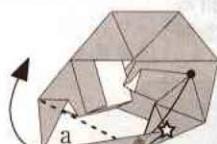
21. 大きく中割り折り

22. ☆印の部分をひろげて  
引き寄せるように折る

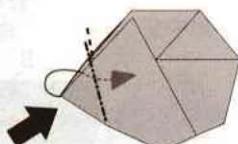
中割り折り

23. 内側が見えるように  
(折筋は付けない)  
かるくカドを立てる24. ☆印の部分をひろげながら  
aのカドを立てる

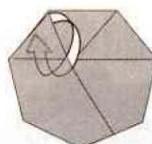
25.

☆印の部分で●印のカドを  
包むようにして折りたたむ

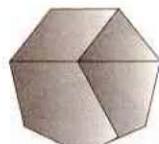
26.

中割り折りでカドを  
内側に折り込む

27.

下にあるポケットに  
aのカドを差し込む

28. 完成



# リス

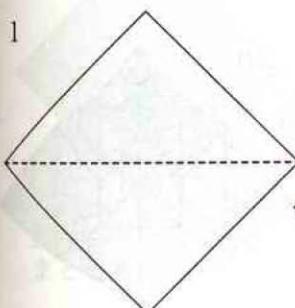
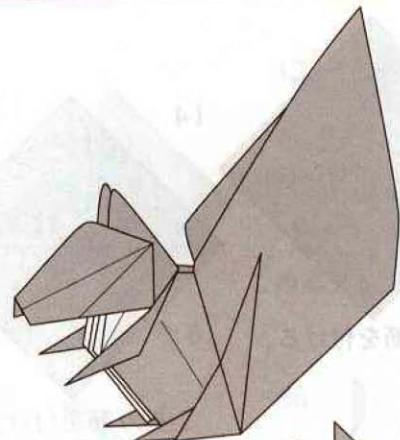
Squirrel

## 中川 幸治

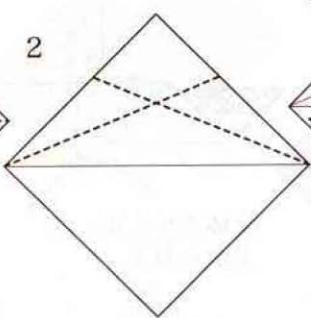
Kouji Nakagawa

創作：2003年 4月

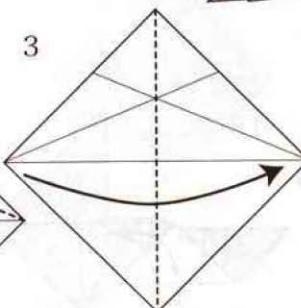
作図：2003年 4月



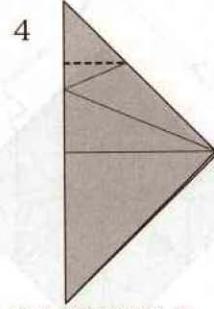
折り筋を付ける。



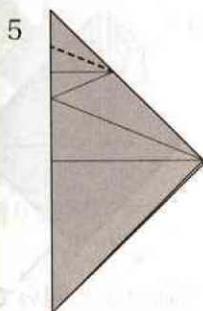
折り筋を付ける。



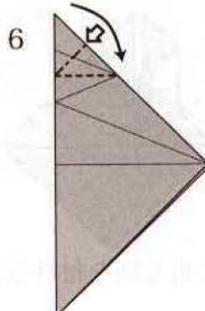
半分に折る。



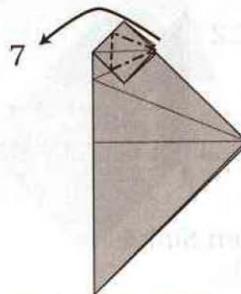
折り筋を付ける。



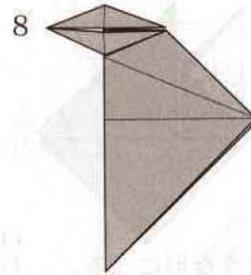
折り筋を付ける。



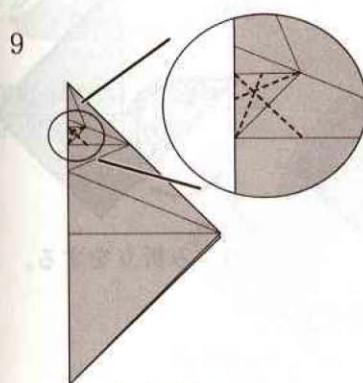
開いてつぶす。



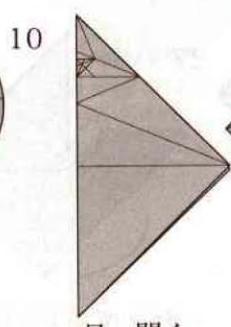
鶴の基本形を作る。



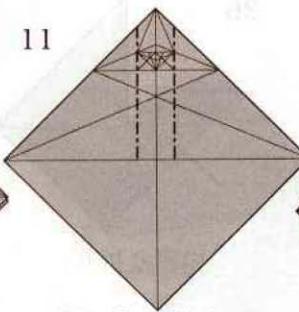
5の状態に戻す。



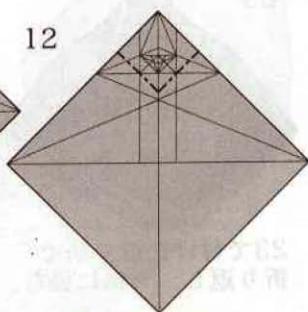
折り筋を付ける。



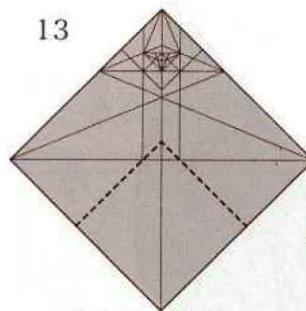
一旦、開く。



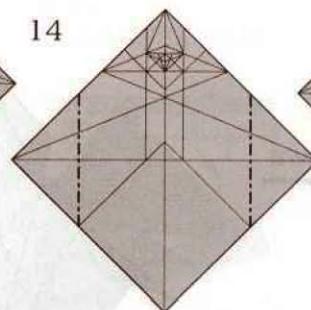
折り筋を付ける。



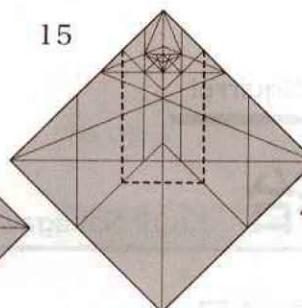
折り筋を付ける。



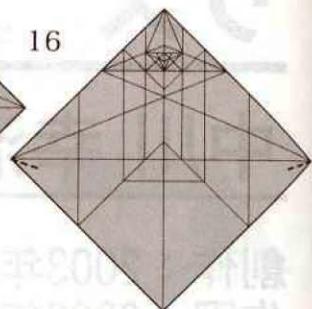
折り筋を付ける。



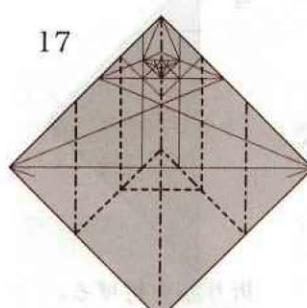
折り筋を付ける。



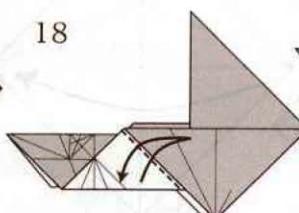
折り筋を付ける。



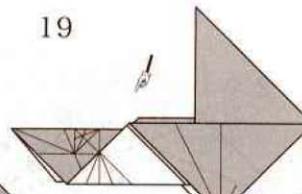
折り筋を付ける。



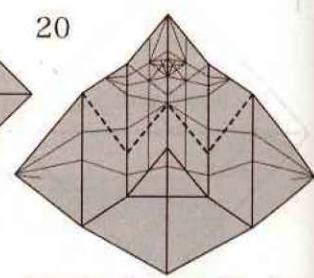
一気に折り畳む。



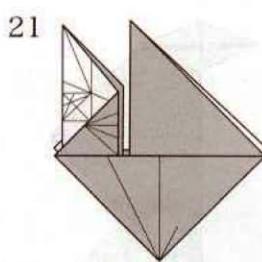
強く折り目を付ける。



全体を少し開いて  
上から見る。



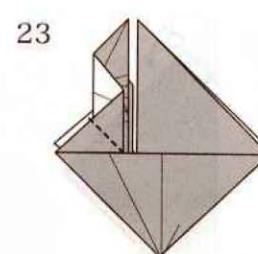
18で付けた折り筋で折り  
返し、一気に畳む。



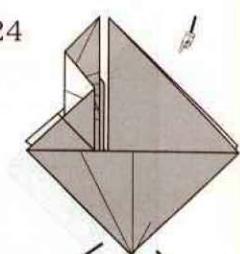
このような形になる。



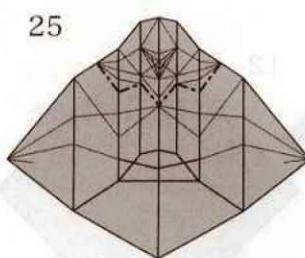
Open Sinkを行なう。



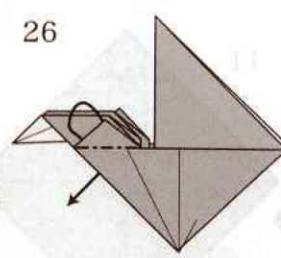
強く折り筋を付ける。



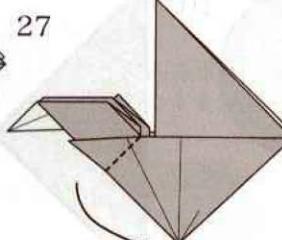
全体を少し開いて  
上から見る



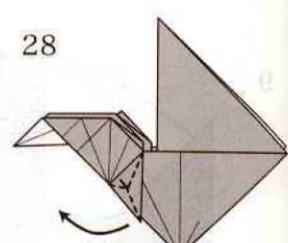
23で付けた折り筋で  
折り返し、一気に畳む。



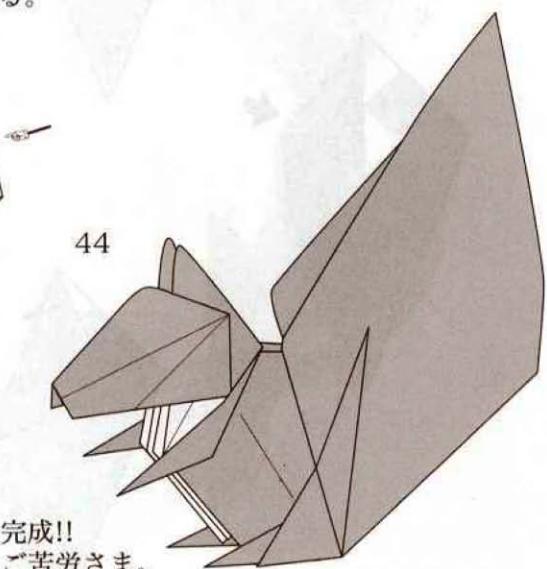
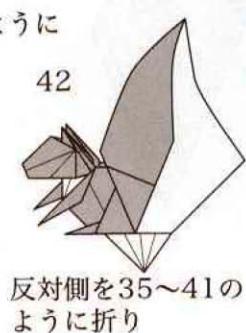
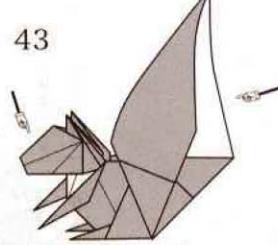
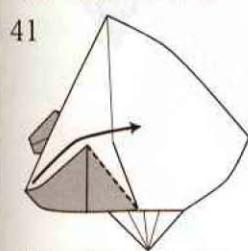
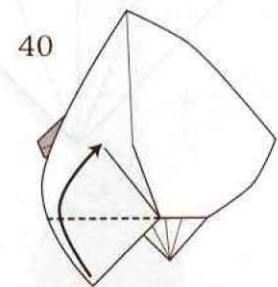
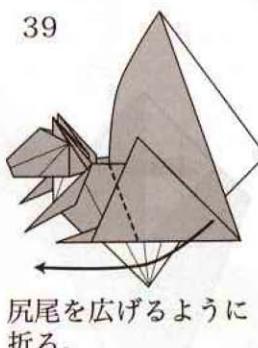
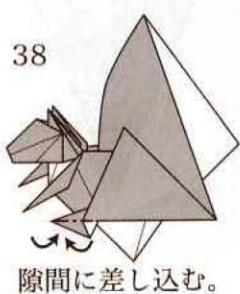
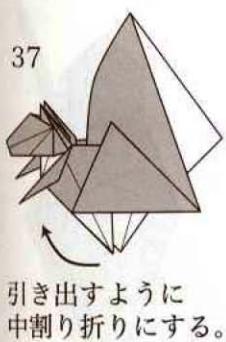
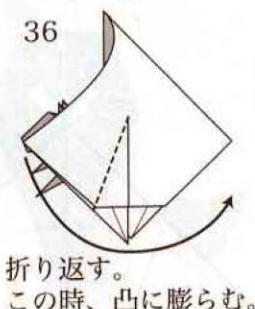
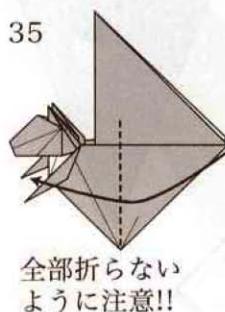
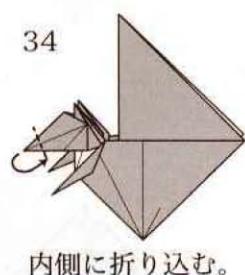
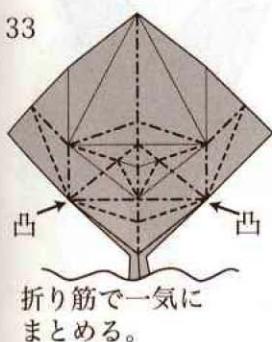
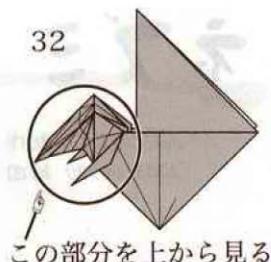
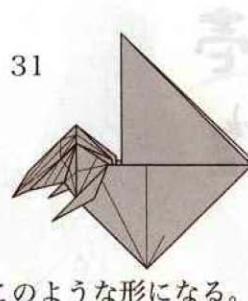
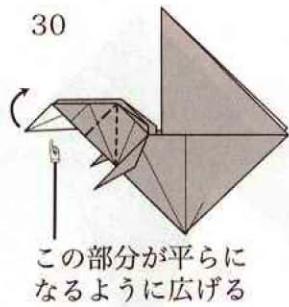
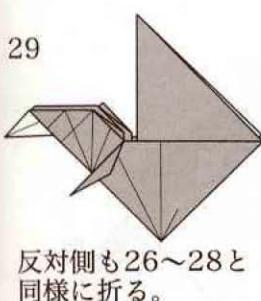
中割り折り。



一杯の所で下に折り返す。

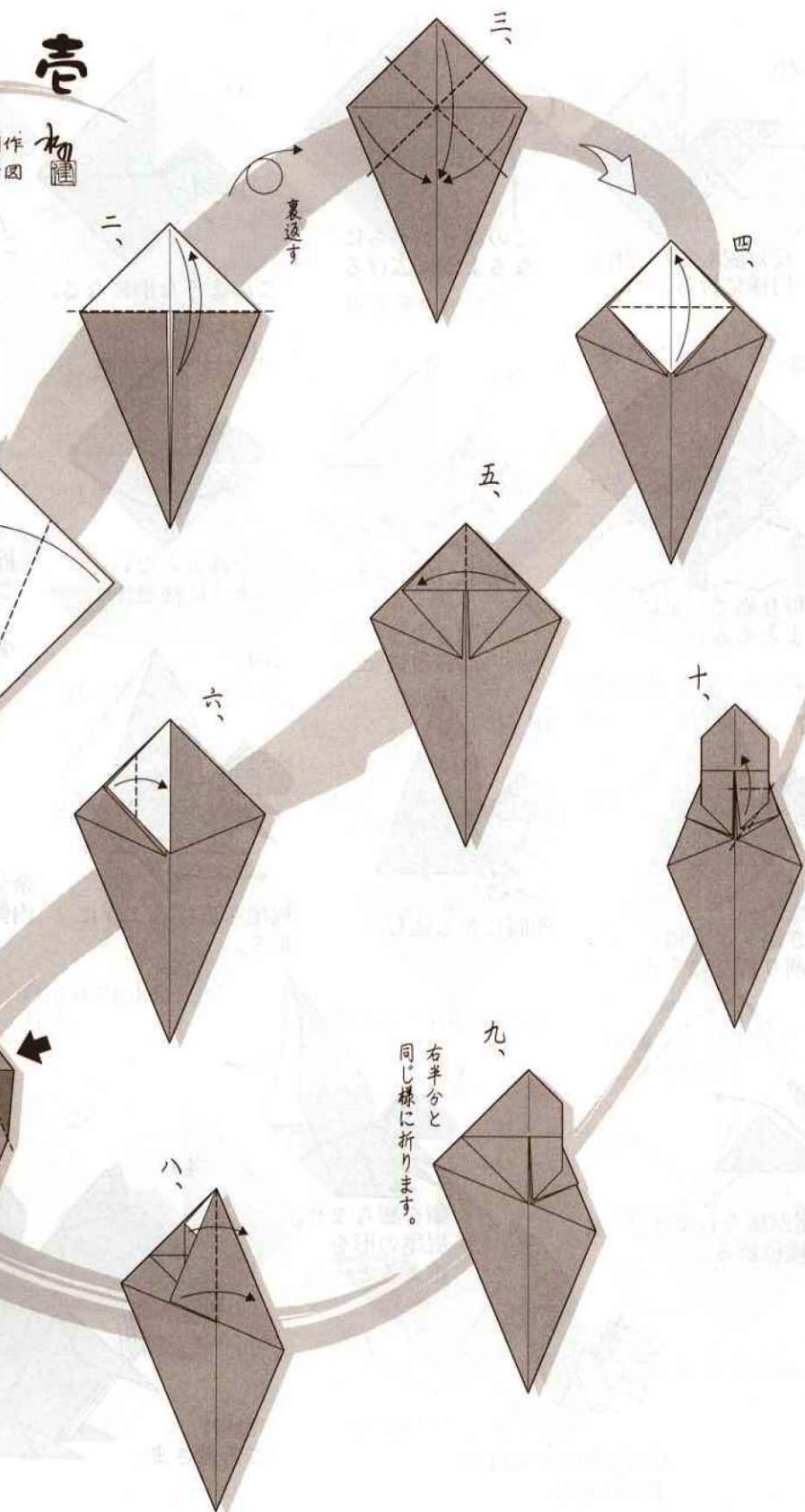


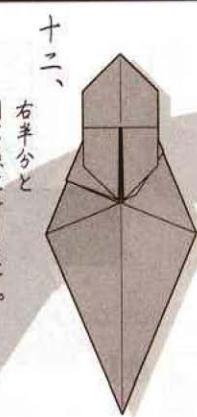
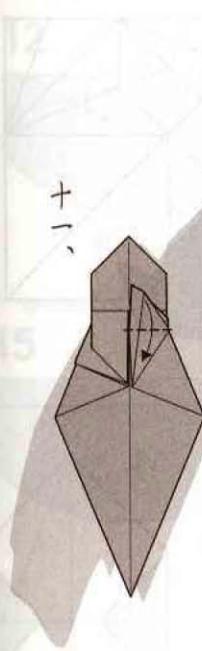
つまみ折りをする。



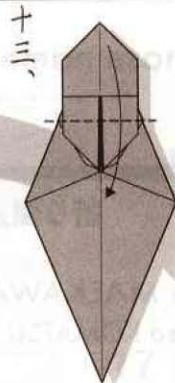
# ネズミ 壱

2002.02.11 創作  
2003.06.30 折図

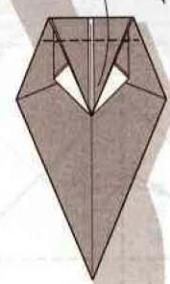




右半分と  
同じ様に折ります。



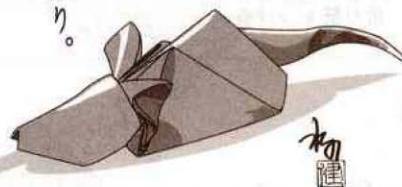
十三、



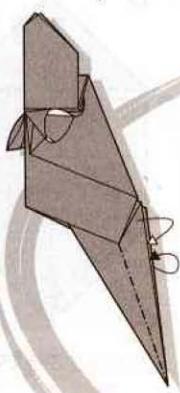
十四、

尾尾を波打たせる様に  
形作ります。

出来上がり。



十八、



十五、

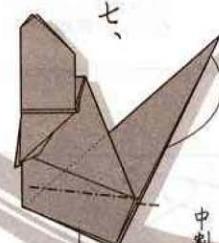


十六、



十七、

中割り折り



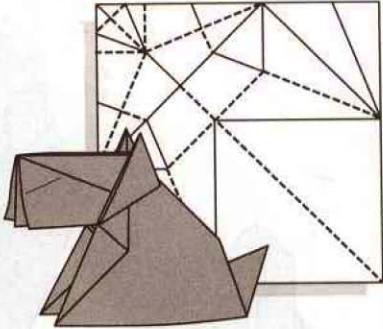
中割り折り

# 犬 (マック)

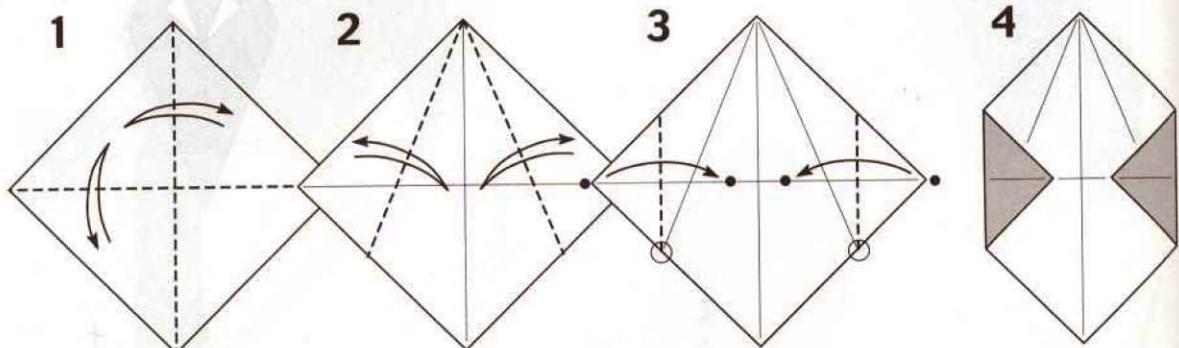
作／前川 淳

折り図／小松英夫

Model designed by Jun MAEKAWA  
Diagrams produced by Hideo KOMATSU



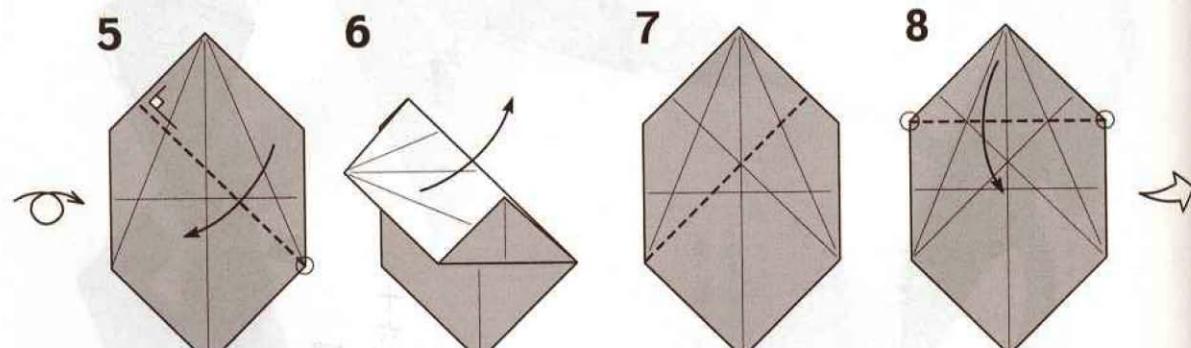
[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)



折り筋をつける

中心線にあわせて  
折り筋をつける

折り筋を目安に折る

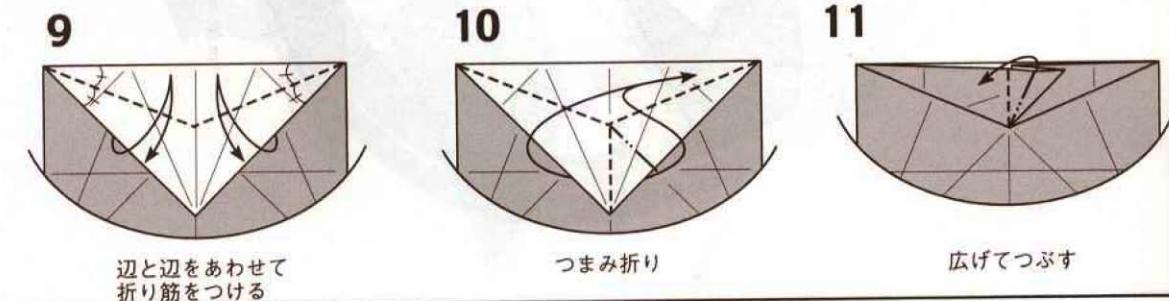


カドの  
ところで折る

折り筋を  
つけて戻す

反対側も  
5~6と同様

カドのところで折る



辺と辺をあわせて  
折り筋をつける

つまみ折り

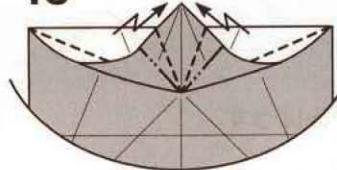
広げてつぶす

12



軽くひろげる

13



山谷を逆にして折り畳む

14

すぐ後ろのすきまに  
折り込む

15

16

後ろのカドの  
ところで折る

17

ついている  
折り筋で  
次の図のよう  
にまとめる

18

カドを  
引き寄せて折る

19

縁に沿って  
折り目をつける

20

印を  
あわせるように  
両側で段折り

21

紙を1枚だけ  
引き出す

22

山谷を逆にして  
折り畳む

23

反対側も21~22と  
同様に折る

24

めいっぱいに折る  
反対側も行う

25

折り筋にあわせて折る  
反対側も行う

26

中割り折り

27

中割り折り

28

できあがり

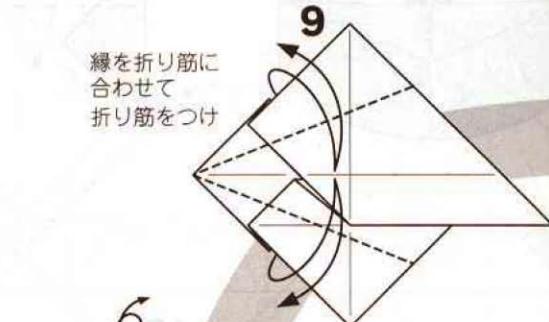
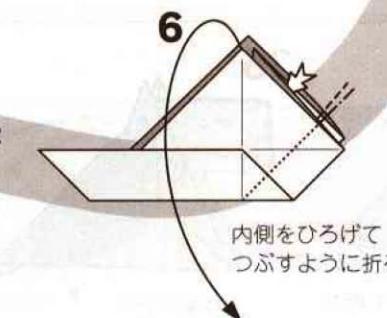
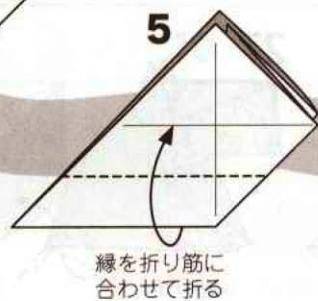
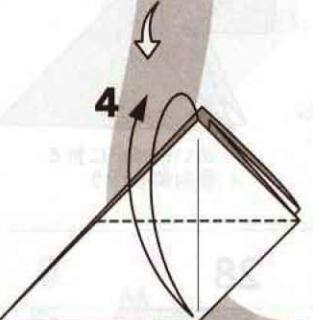
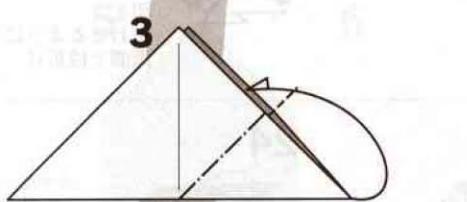
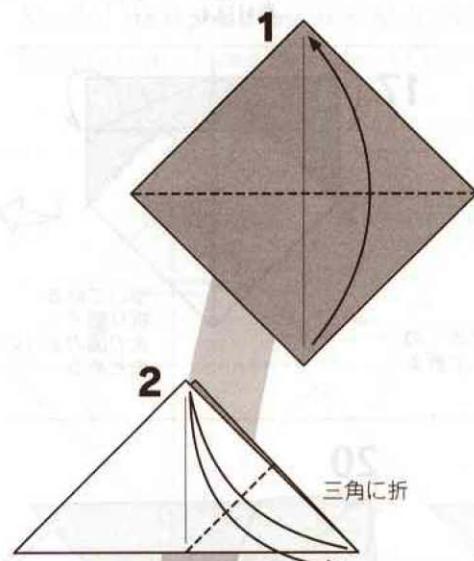
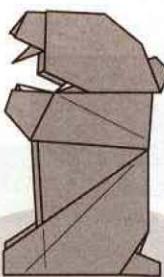
47

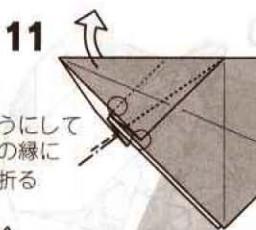
# クマ

創作・西川誠司 折り図・おりがみはうす

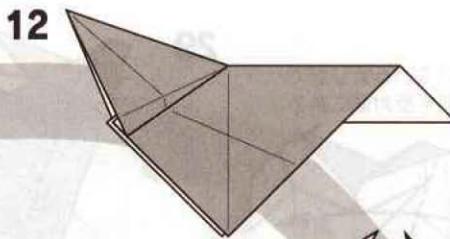
Model Designed by Nishikawa Seiji

Diagrams and Edited by ORIGAMIHOUSE

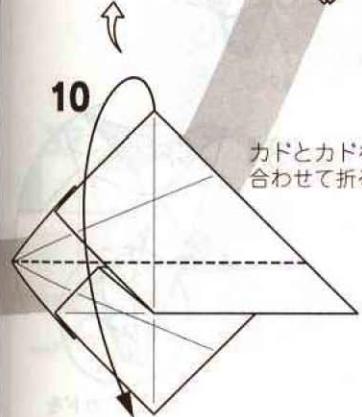




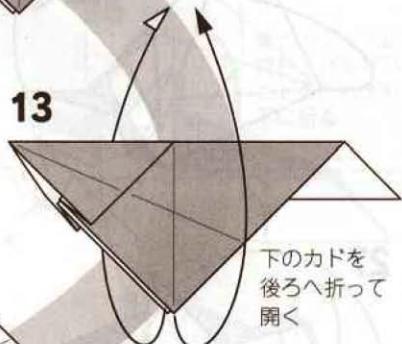
ずらすようにして  
カドを下の縁に  
合わせて折る



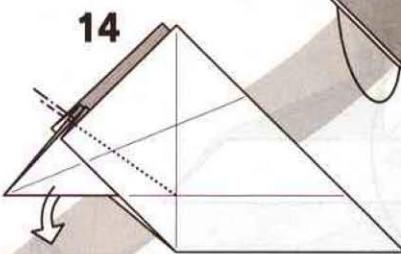
しっかりと  
折り筋を  
つけてから  
11の形に  
戻す



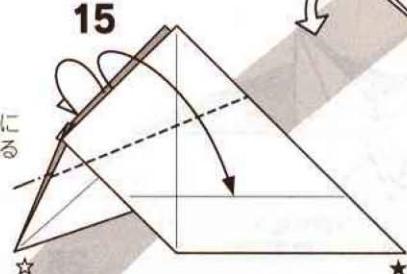
カドとカドを  
合わせて折る



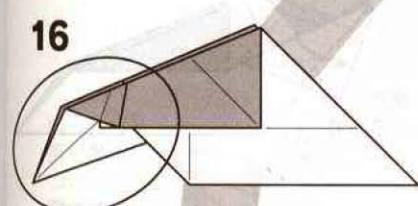
下のカドを  
後ろへ折って  
開く



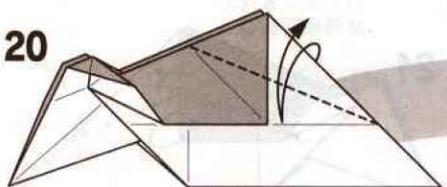
12でつけた  
折り筋で折る



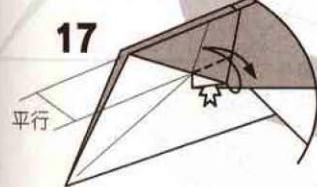
縁を折り筋に  
合わせて折る



16

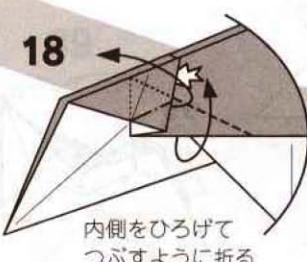


縁を折り筋に  
合わせて  
折り筋をつける

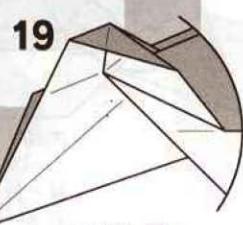


17

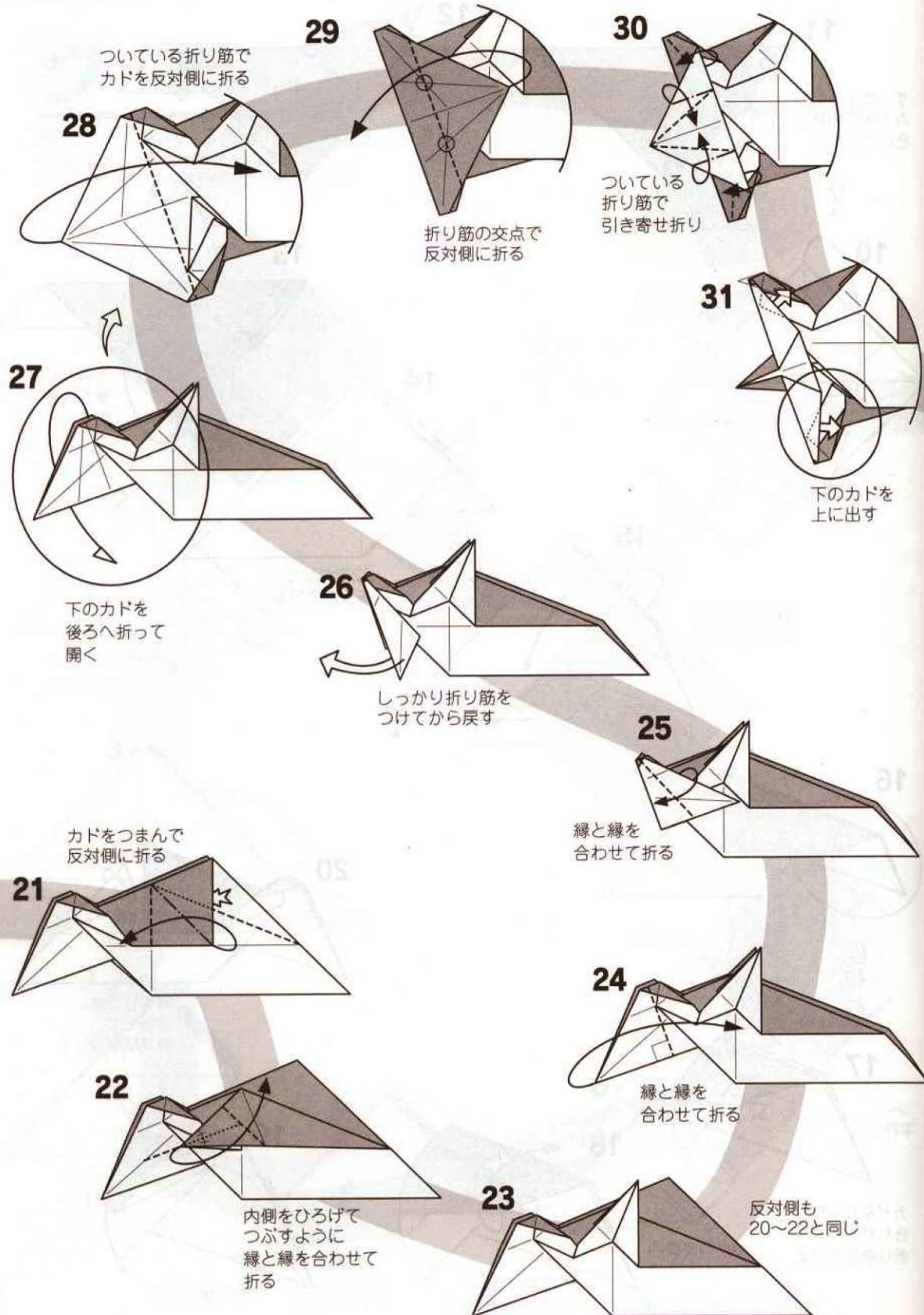
カドを折り筋に  
合わせて  
折り筋をつける

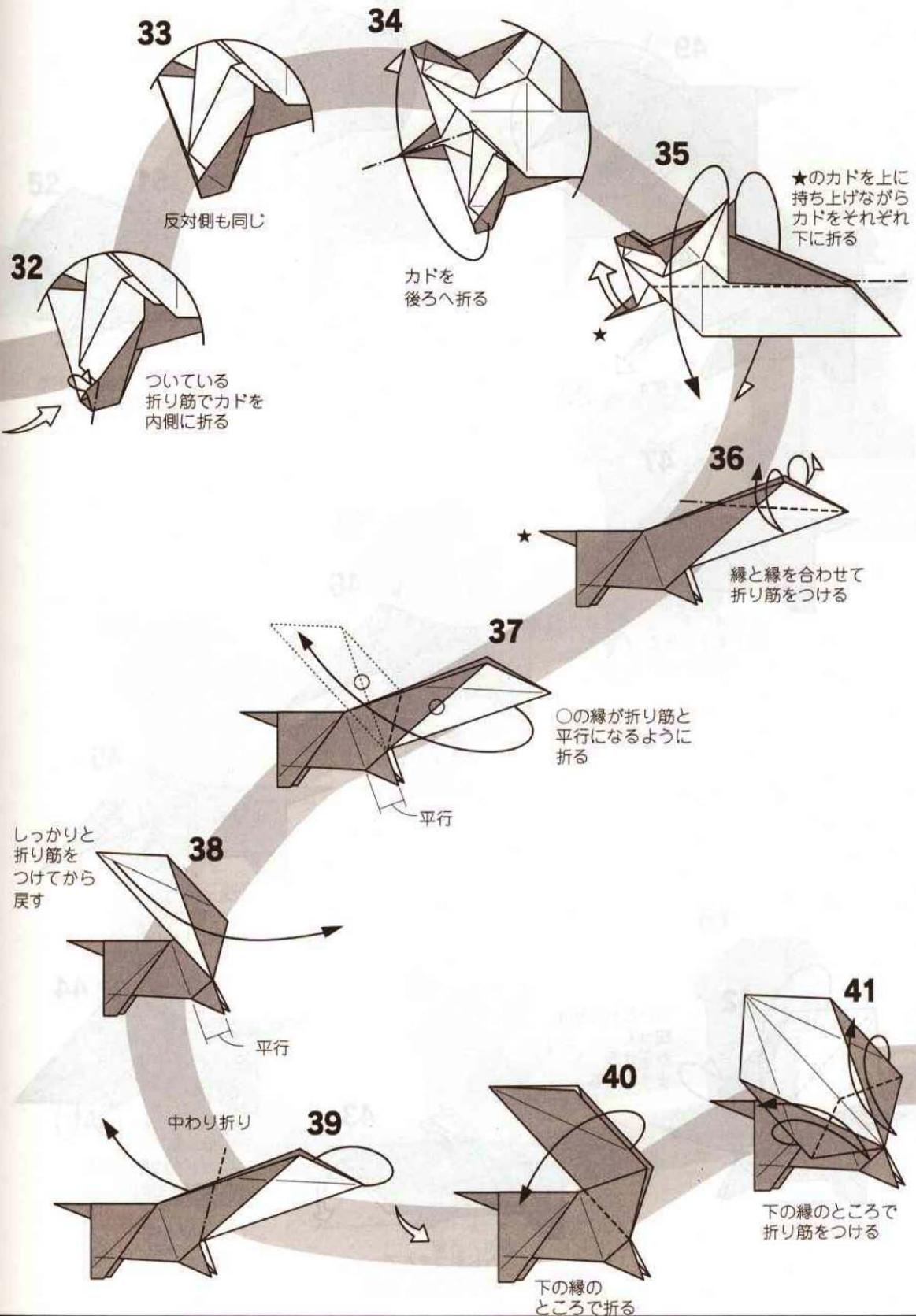


内側をひろげて  
つぶすように折る

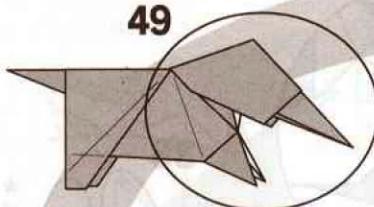


反対側も同じ

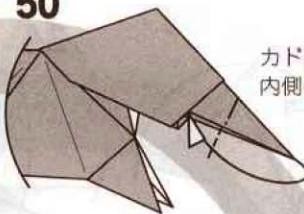




49

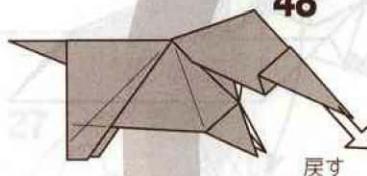


50



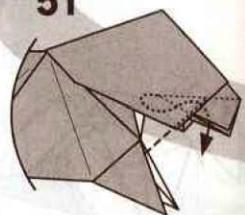
カドを内側に折る  
Fold the corner inwards

48



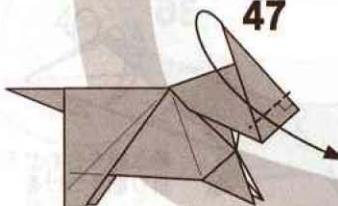
戻す  
Return

51



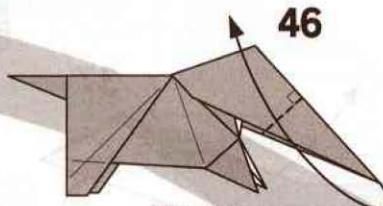
内側のカドを中わり折り  
Fold the inner corner inwards

47



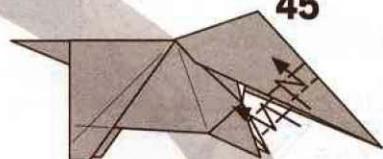
少し残してカドを下に折る  
Leave a small part and fold the corner downwards

46



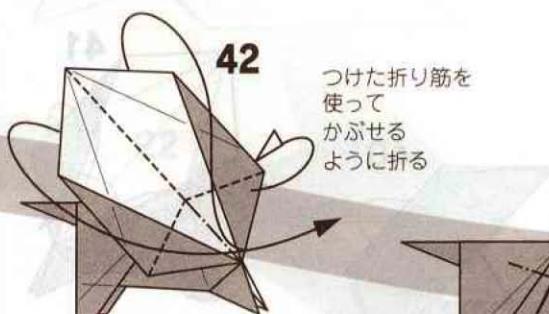
縁と縁を合わせてカドを上に折る  
Fold the corner upwards by aligning the edges

45



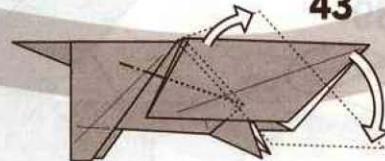
ついている折り筋で内側に段折り  
Fold inwards using the existing fold line

42



つけた折り筋を使ってかぶせるように折る  
Fold over using the fold line you just made

43

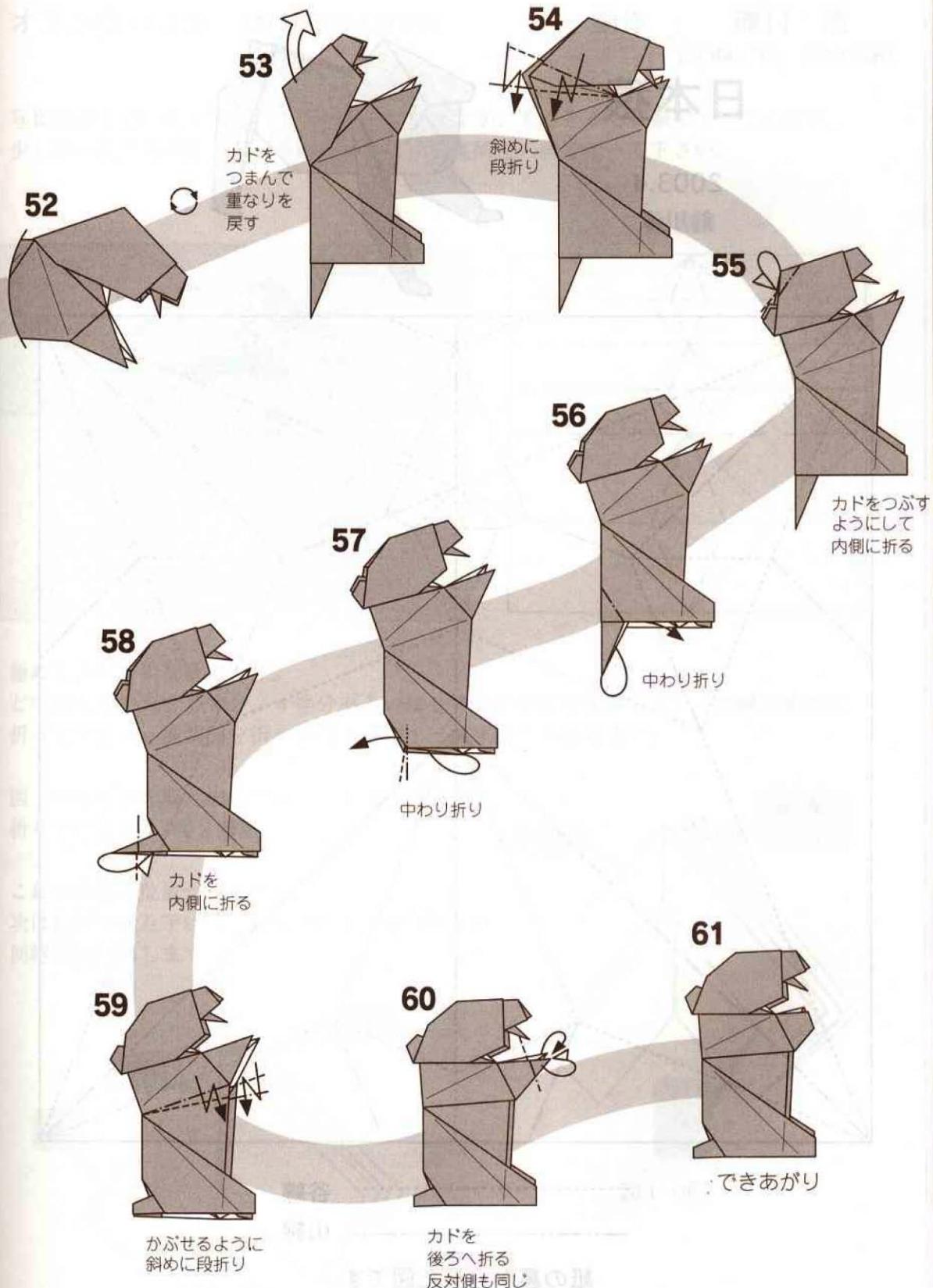


カドをつまんでずらすように折る  
Fold by pinching the corner and moving it

44



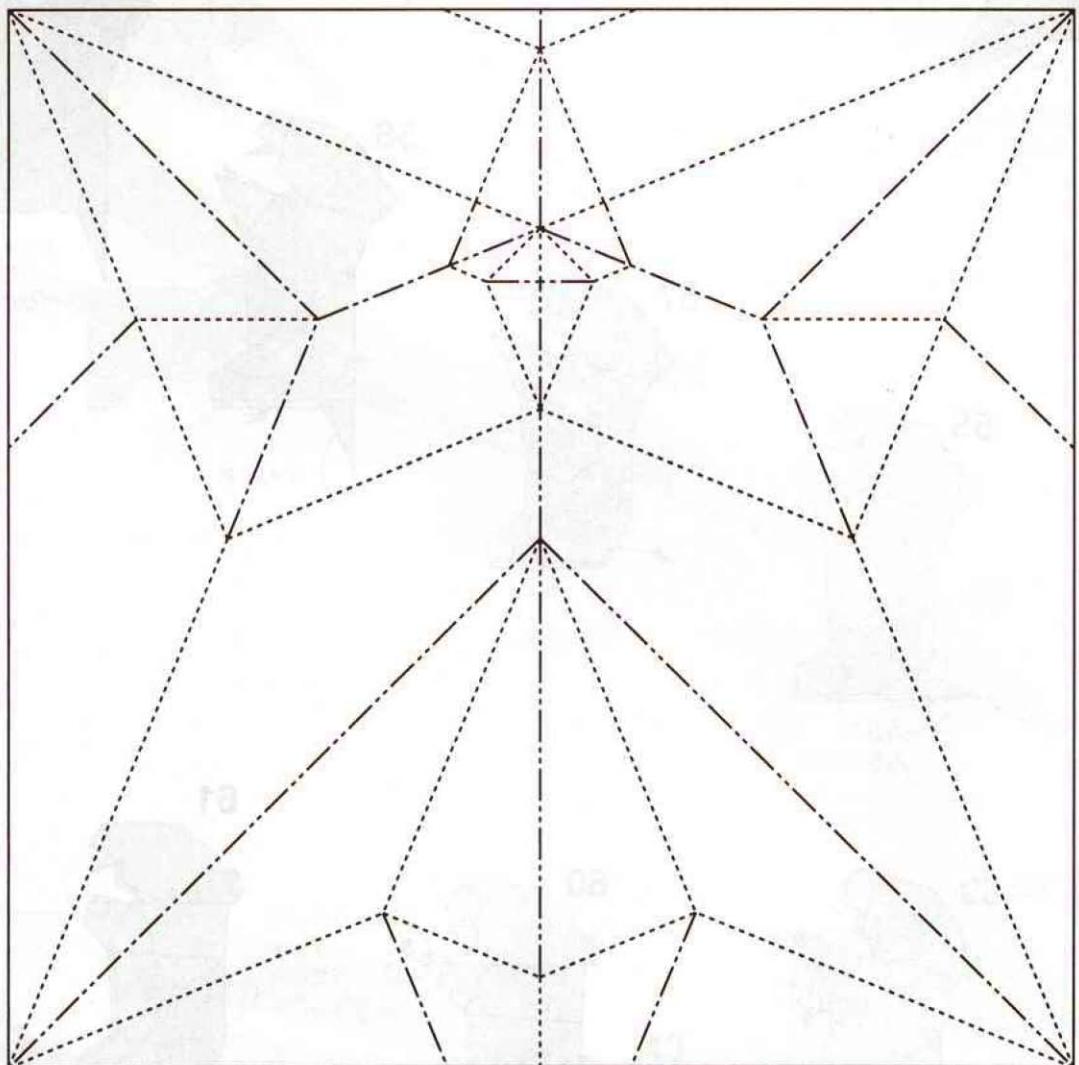
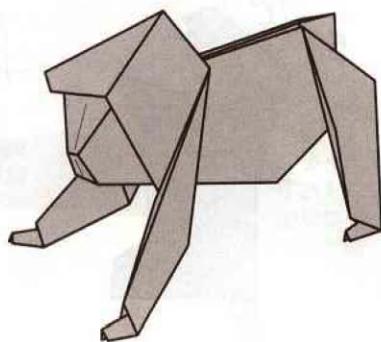
ついている折り筋でカドを内側に折る反対側も同じ  
Fold the corner inwards using the fold line on the opposite side



# 日本猿

2003.4

前川淳



谷線

山線

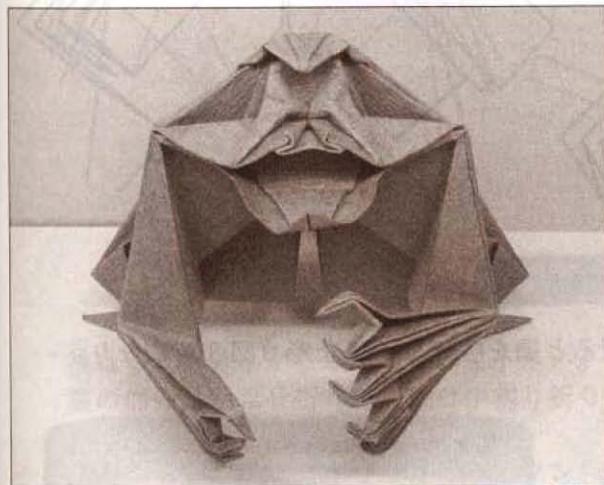
紙の裏から見た図です。

## オランウータン ORANG-UTAN

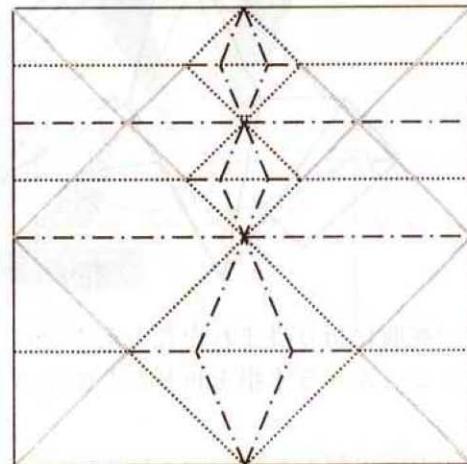
創作 磯村 浩

ISOMURA HIROSHI

写真はB4から切り出した用紙を使っていますが、もっと小さい紙でも大丈夫です。少し厚い紙の方が感じが出ると思います。表裏同色の紙で折って下さい。



展開図



極めてシンプルな構造です。

どの線も辺や角を2等分、4等分あるいは8等分する線ですからグレーの線を基準に折って下さい。展開図を折りあげると図1（前・後）となります。

図1の基本形を取り出したら、まず下顎の部分を折り下げます。（図2参照）

これで両肩の位置が決まります。

次は臀部を折り下げて、足とお尻を中割り折りで同時に折り出します。

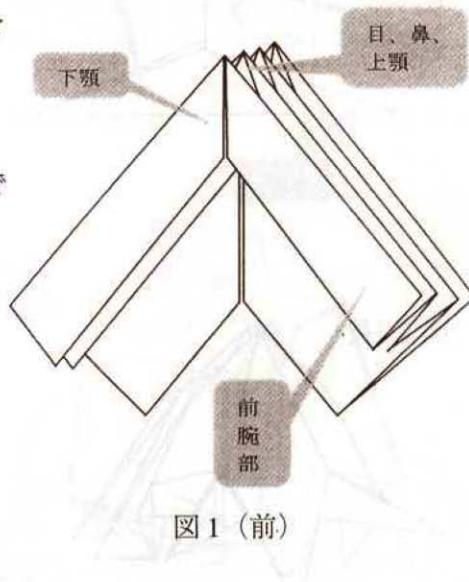


図1（後）

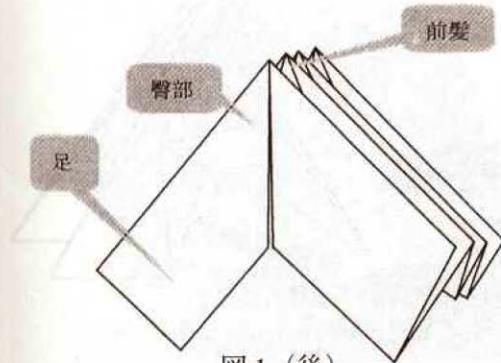


図2(後)

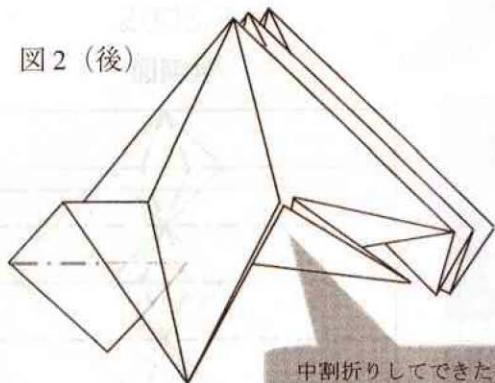


図2(前)

中割折りしてできた足。

図2の蛇腹に折り畳まれた長方形を点線で折ると扇を広げたような形(図3)になります。ここから5本指を折りだして下さい。

図3(肩から先だけの拡大図)

図3をグレーの線で折りたたむとこんな感じになります。肩の支点が離れているのは気にしないでください。

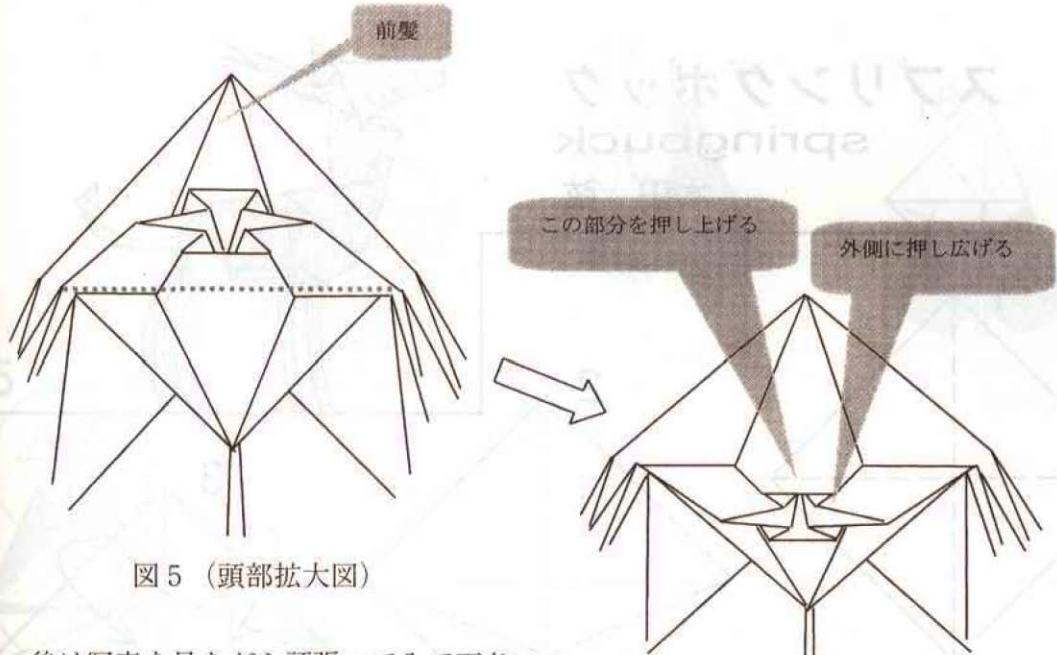
図4(前)

図4(後)

右足

この線にあわせて中割折りを繰り返して指をつくる。

56

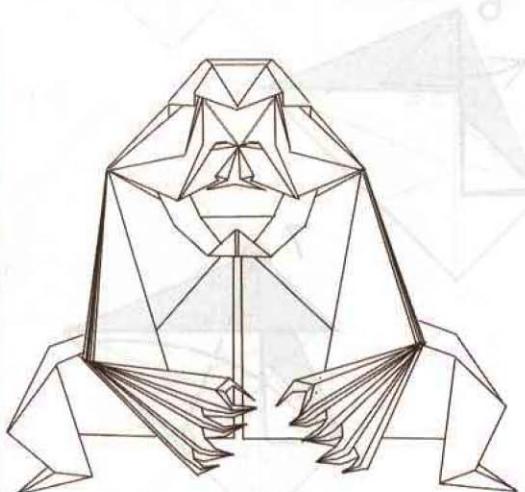


後は写真を見ながら頑張ってみて下さい。  
膝の部分はかぶせ折り、足先は中割り折りを2回です。

広島市立安佐動物公園のオランウータン「ジャック」をモデルにしましたが、ジャックは毛むくじゃらでいつも顔はよく見えませんでした。ニンヤリと笑っているのだろうと勝手に思いこんで制作しました。結局ゴリラなのかオランウータンなのか、はっきりしない動物になってしまいましたが、黒い紙で折ったときはゴリラ、赤茶色の紙で折ったときはオランウータンということにして楽しんでいます。

展開図の下半分の山谷を逆にして折ると左下の写真のように腹部が割れてないオランウータンができます。折り方はほとんど同じです。腹割れバージョンに続けて折つてみて下さい。

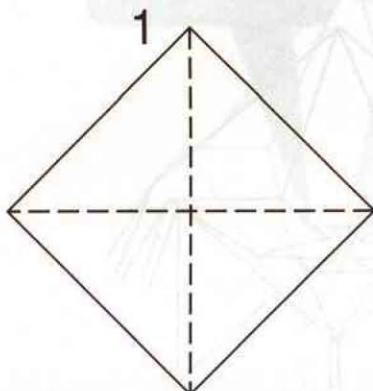
こちらの方がオランウータンらしいと思いますが、今度は背中が割れてしまいます。



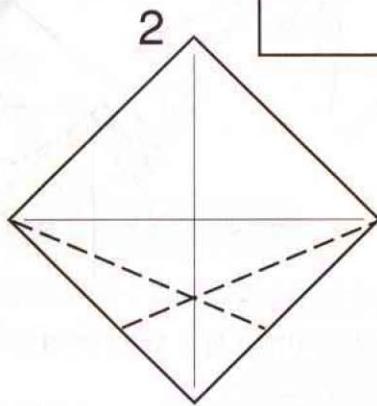
# スプリングボック

## springbuck

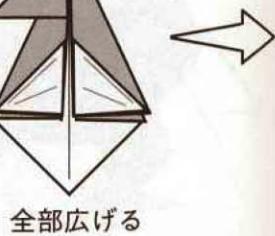
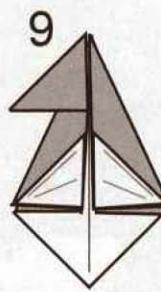
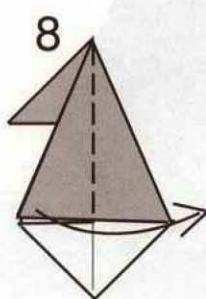
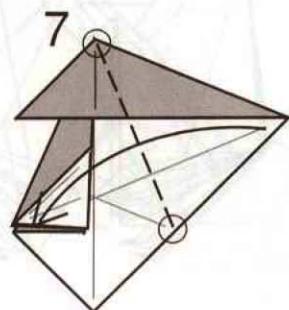
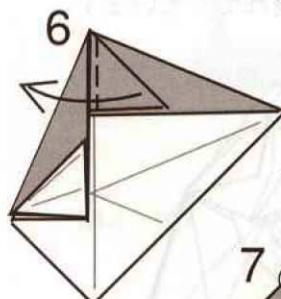
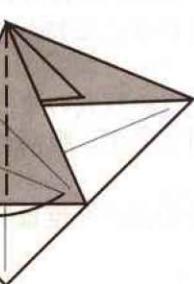
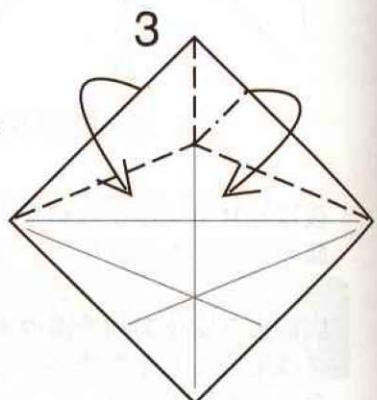
本田 弦

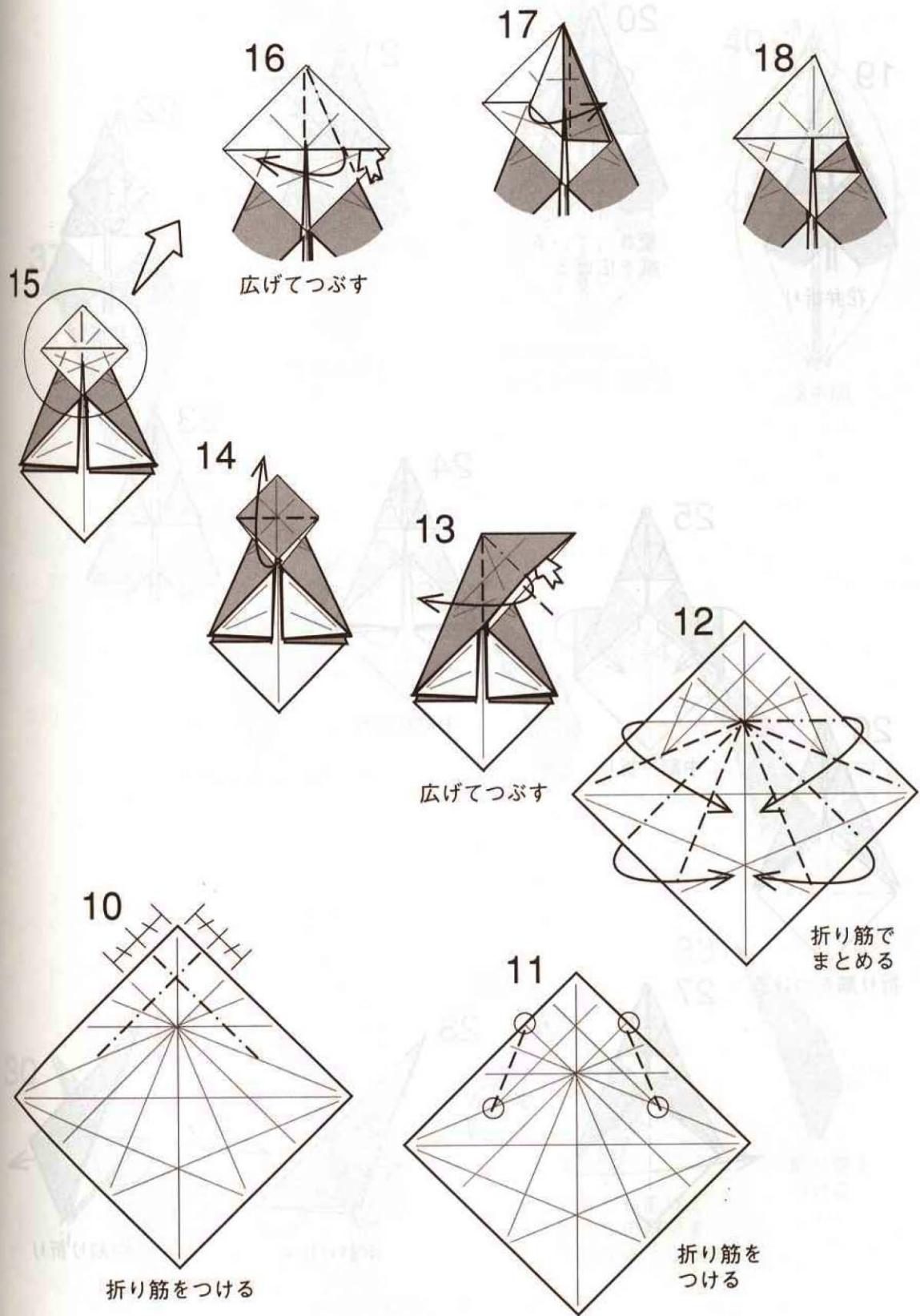


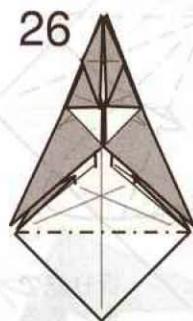
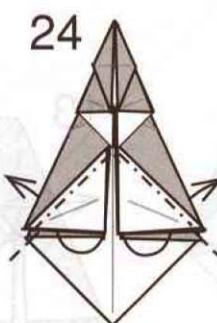
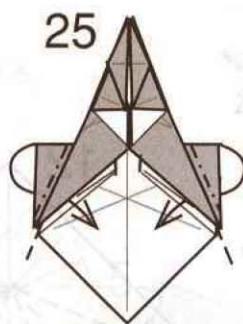
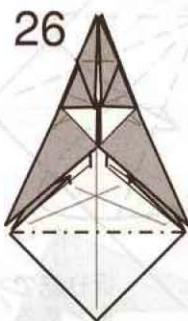
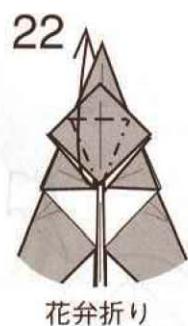
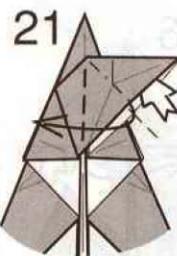
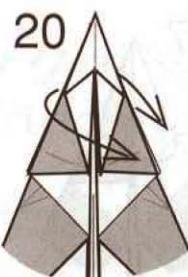
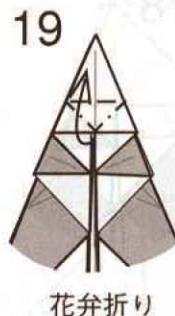
折り筋をつける



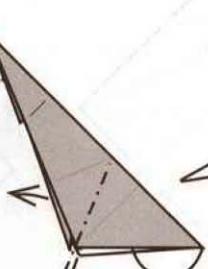
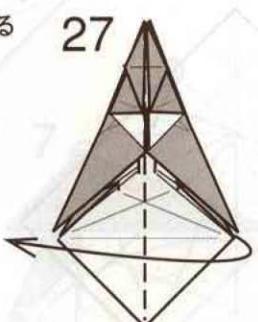
折り筋をつける

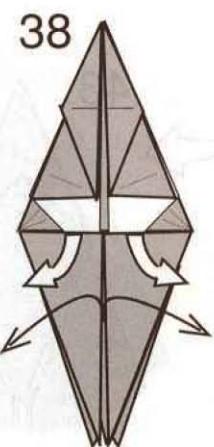
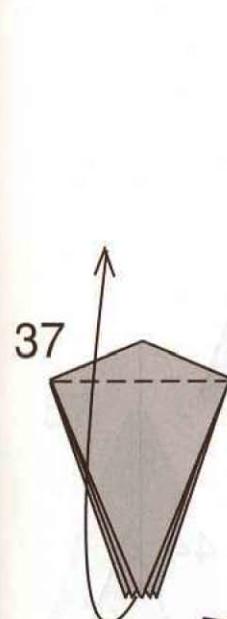




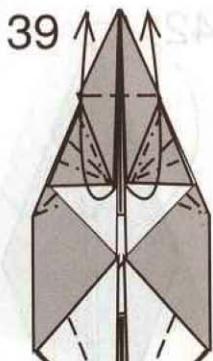


折り筋をつける

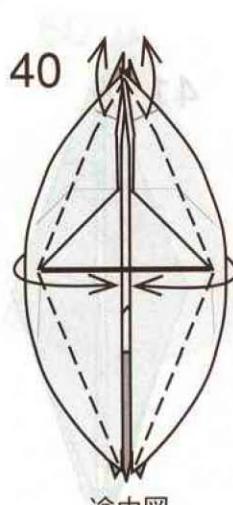




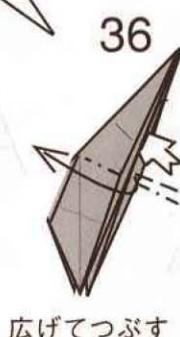
内側の紙を  
引き出す



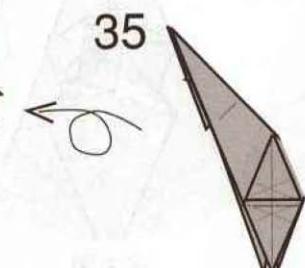
折り筋を使って  
かどを引き上げる



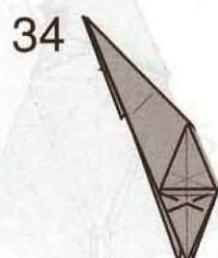
途中図



広げてつぶす

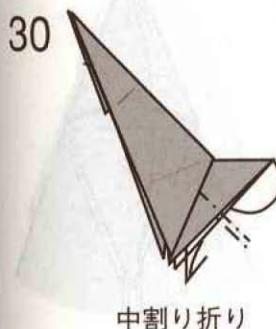


35



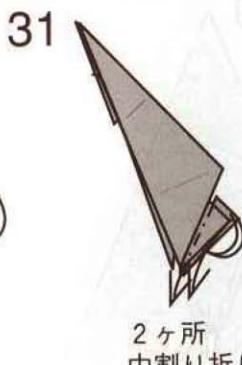
34

折り筋を  
つける



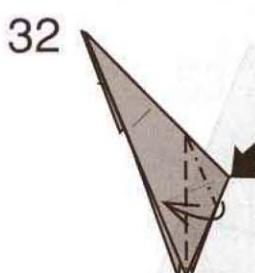
30

中割り折り



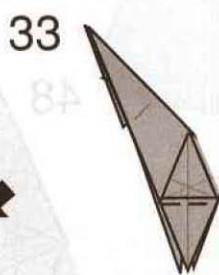
31

2ヶ所  
中割り折り



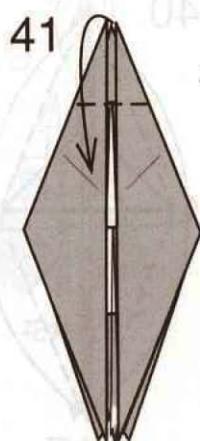
32

中央から広げて  
黒矢印の部分を  
つぶすように折る

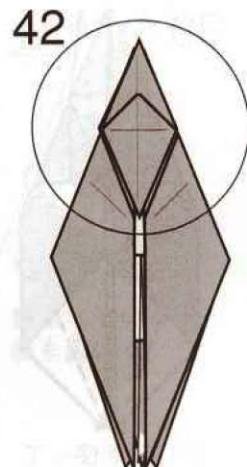


33

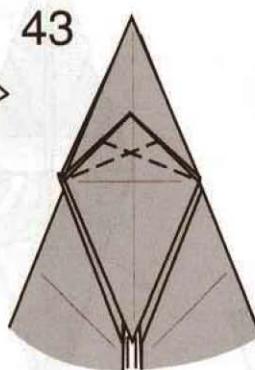
折り筋を  
つける



41

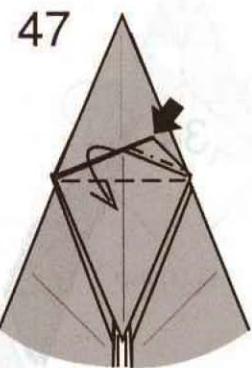


42

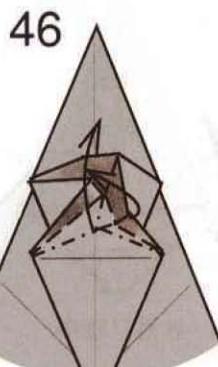


43

折り筋をつける

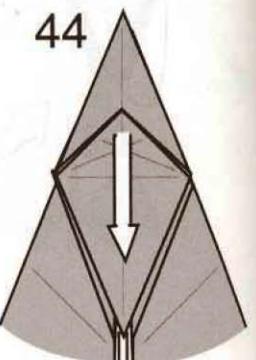
かどを3つ  
折り下げる

47



46

途中図

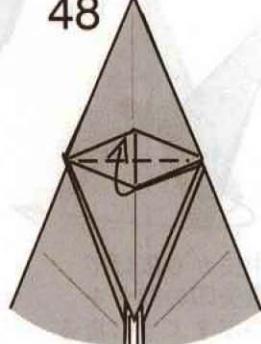


44

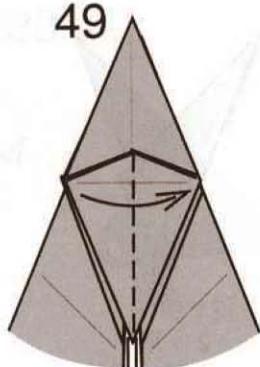
三角の部分を広げる

一番手前にある層を  
広げて黒矢印の部分を  
つぶすように折る

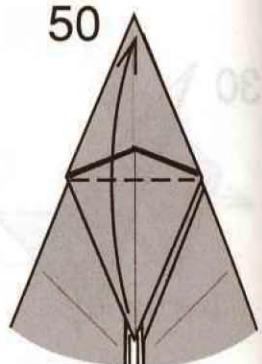
48



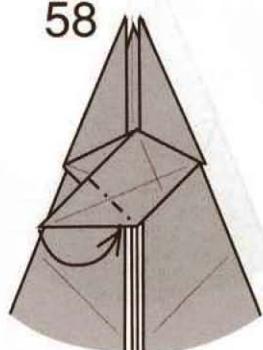
49



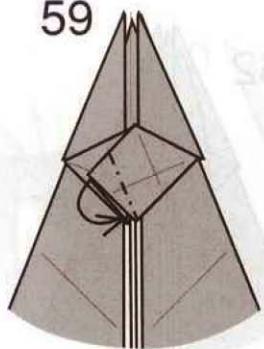
50



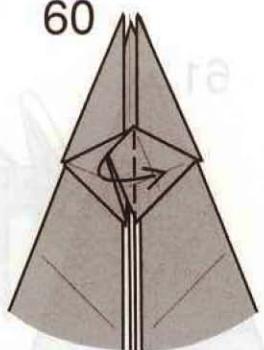
58



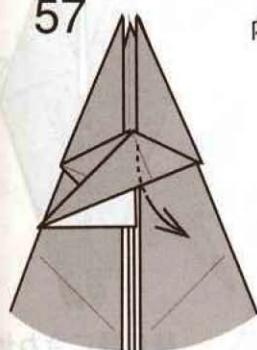
59



60

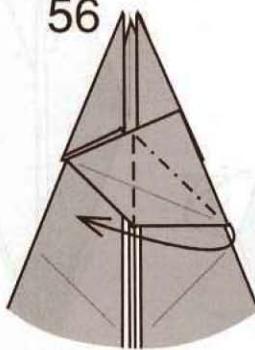


57

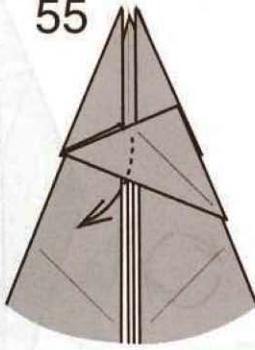


内側に折り込む

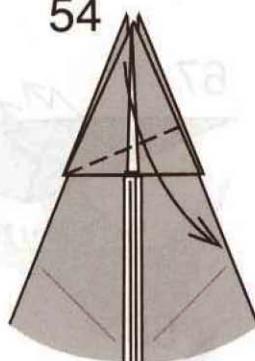
56



55



54

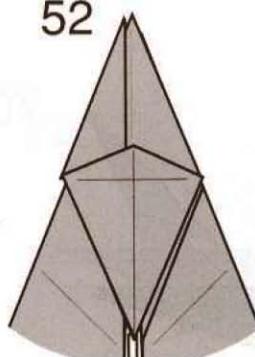


内側の紙を引き出す

51

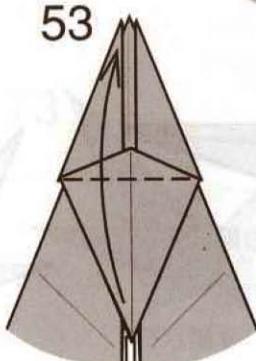


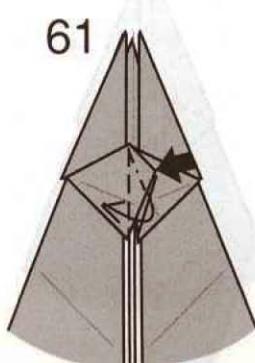
52



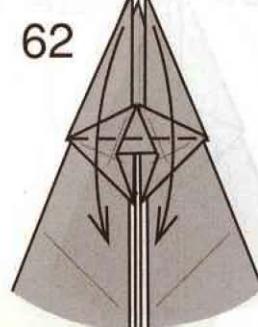
右側も 49～51と同じ

53

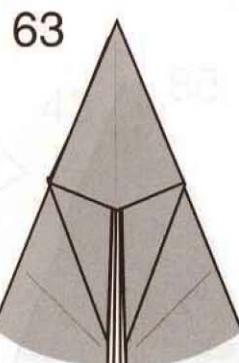




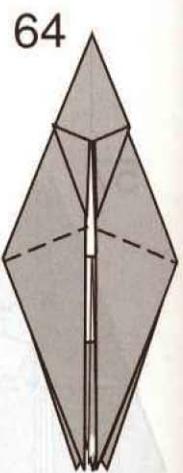
61



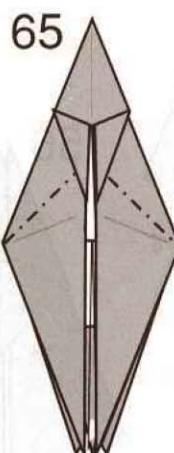
62



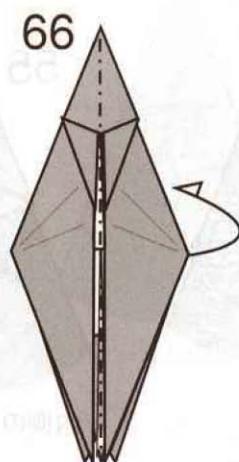
63



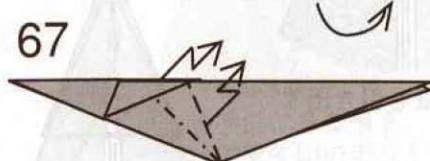
64



65



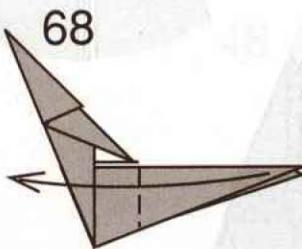
66

後の縁に合わせて  
折り筋をつける

67

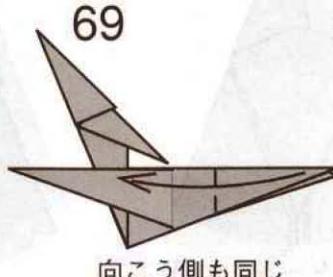
折り筋をつける

つけた折り筋で段折り



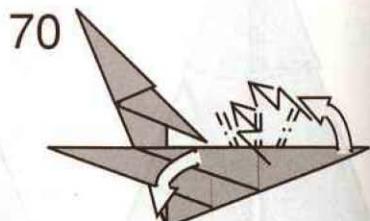
68

向こう側も同じ



69

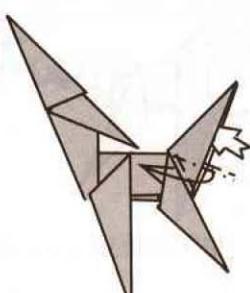
向こう側も同じ



70

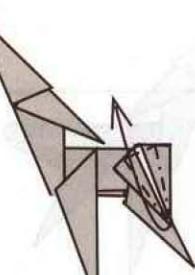
内側をついている折り筋で  
段に折りながら回転させる

78

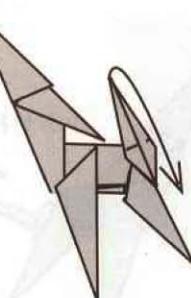


広げてつぶす

79

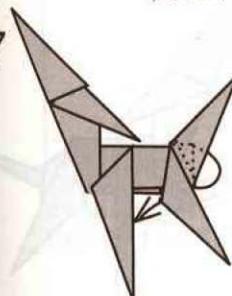


80



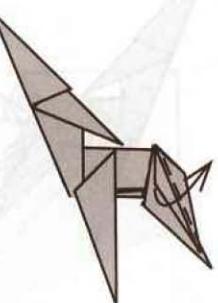
花弁折り

77



内側の2層を  
中割折り

81

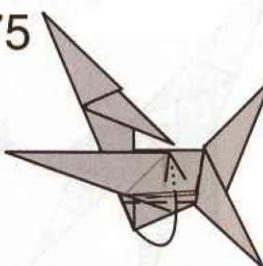


76



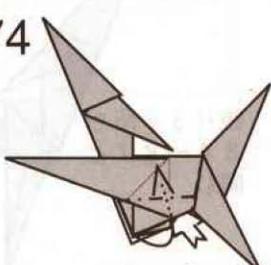
向こう側も同じ

75



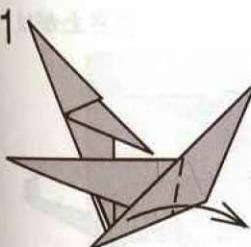
折り込んだところに  
向こう側の紙を差し込む

74



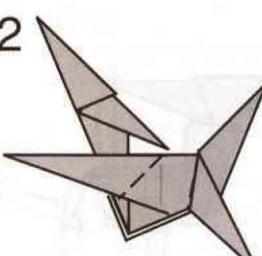
つけた折り筋で  
穴に折り込む

71



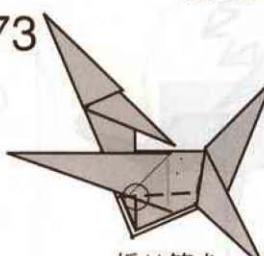
向こう側も同じ

72

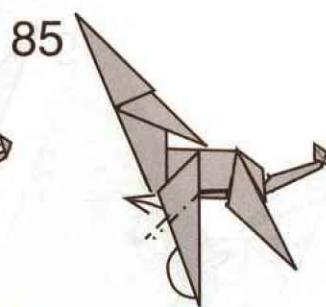
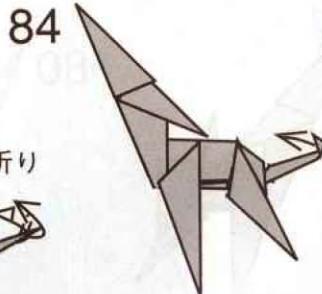
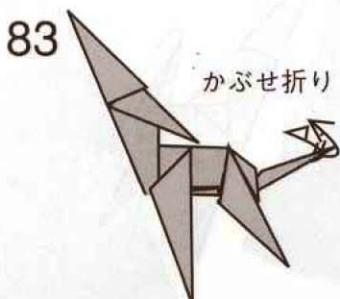


折り筋をつける  
向こう側も同じ

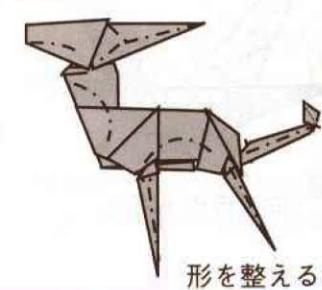
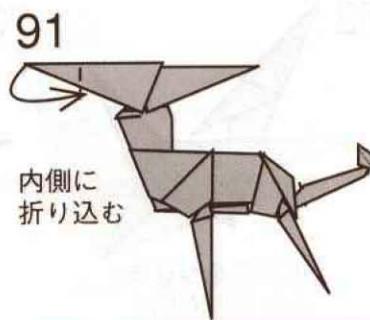
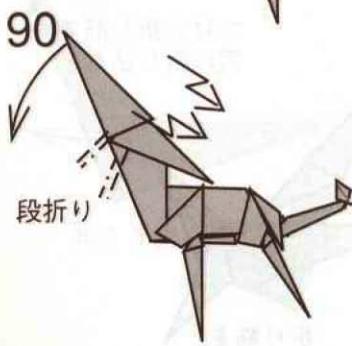
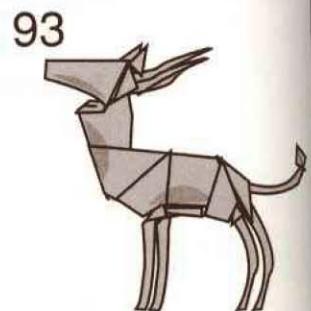
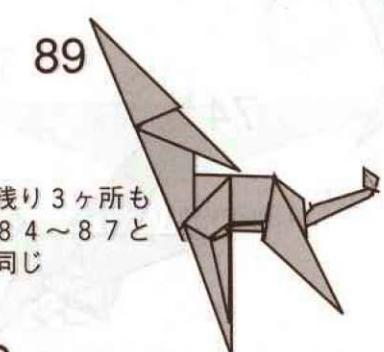
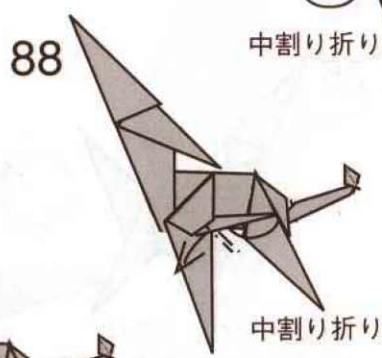
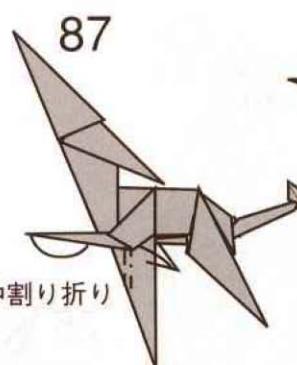
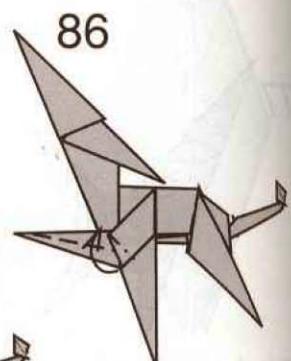
73



折り筋を  
つける



内側の紙を引き出す  
向こう側も同じ



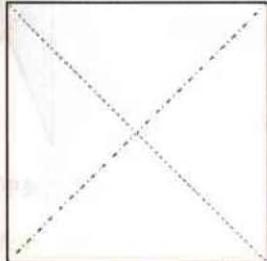
# ペリカン

Pelican

芦村俊一 / Ashimura Shun'ichi

[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)

工程 - 1



対角線に山・谷折で  
折線をつけておきます

工程 - 2

工程 - 3

戻します

工程 - 5

工程 - 4

裏返します

工程 - 6

戻します

工程 - 7

裏返します

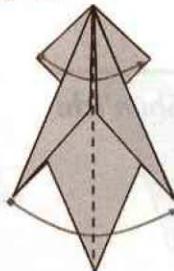
工程 - 8

工程 - 9

戻します

67

工程-17



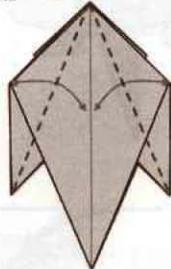
工程-18



工程-19



工程-16



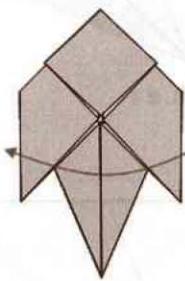
全体を半分に折ります

手前の袋を広げてたたみます

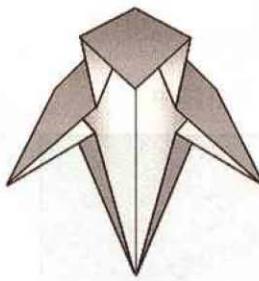
(たたむ途中)

(次の図を参考に)

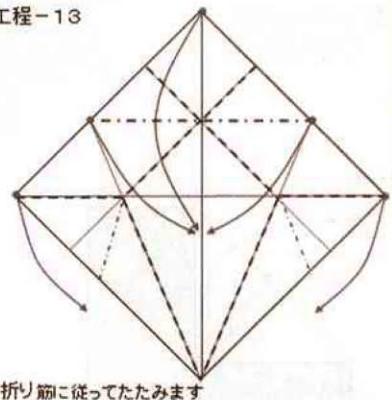
工程-15



工程-14



工程-13

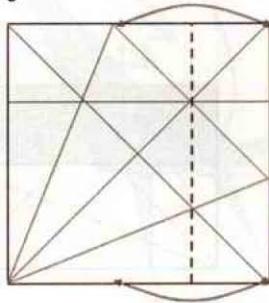


裏返します

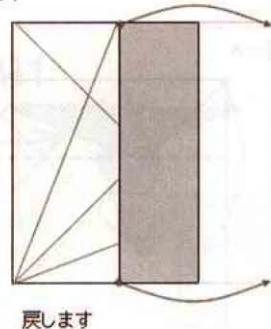
(たたむ途中)

折り筋に従ってたたみます

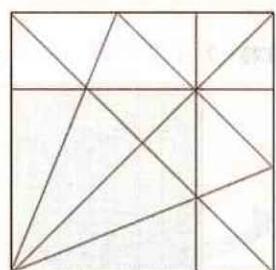
工程-10



工程-11

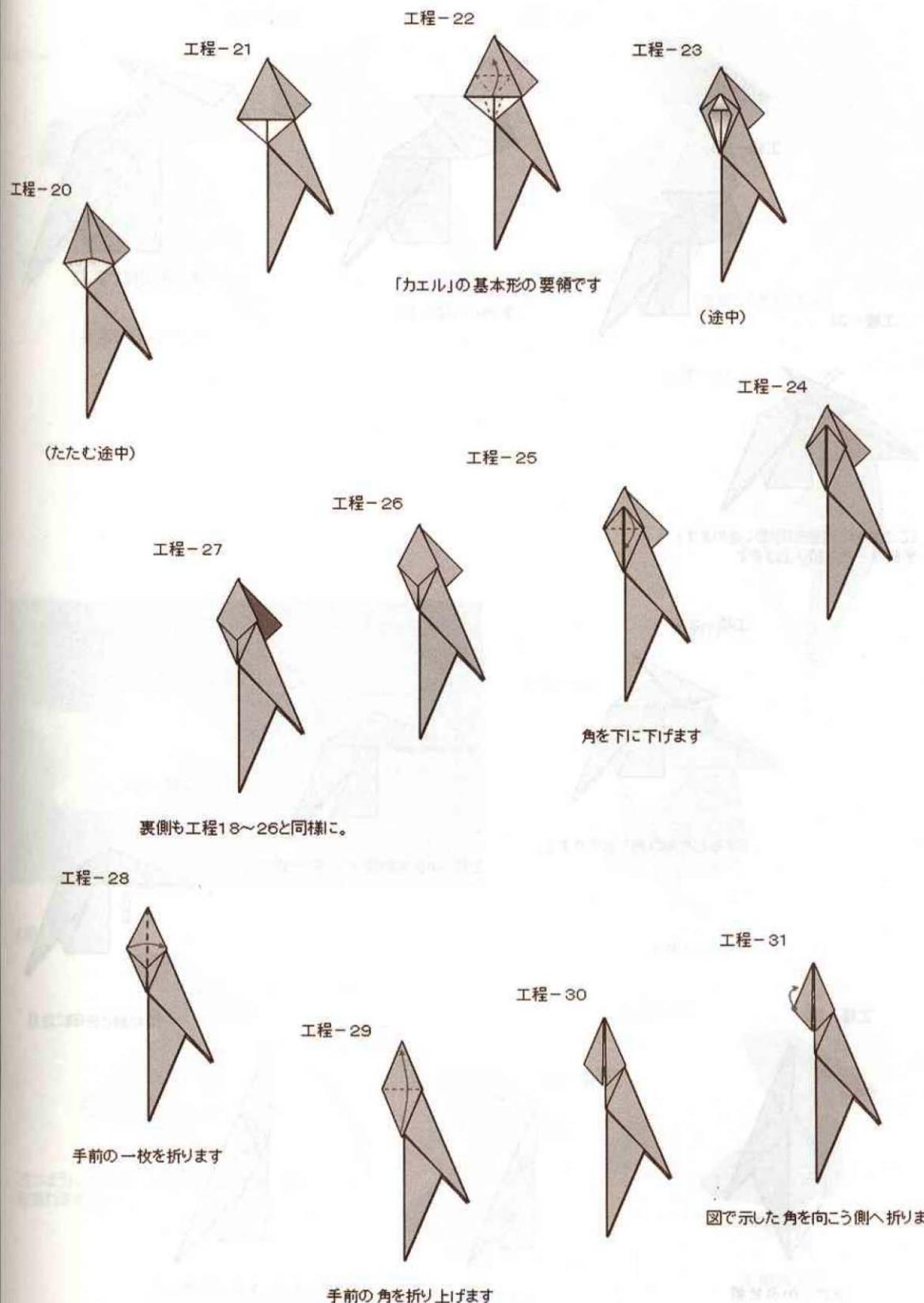


工程-12



戻します

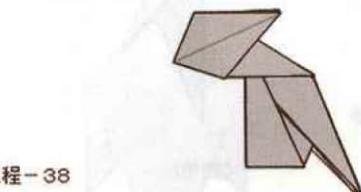
このように折筋ができます



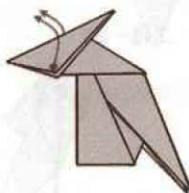
工程 - 41

工程 - 40

工程 - 39



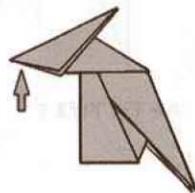
工程 - 38



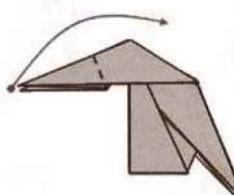
(ここからは裏側も同様に進めます)  
手前の一枚を折り上げます

(裏側も同様ですよ)

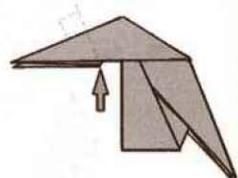
工程 - 37



工程 - 36



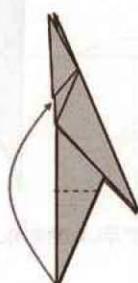
工程 - 35



..すると内側の角も出でてきます。

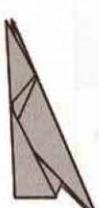
工程34の補助線でかぶせ折で

工程 - 32

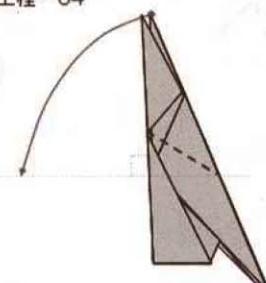


大きくかぶせ折

工程 - 33



工程 - 34

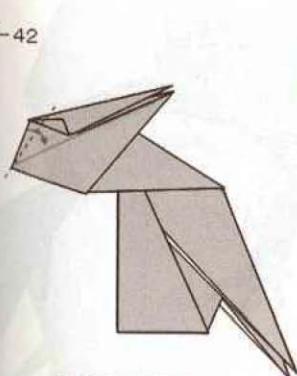


補助線と矢印に注目

折の支点と角度に注意して、  
かぶせ折です

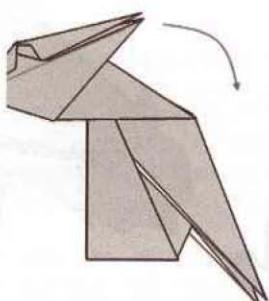
工程 - 43

工程 - 42

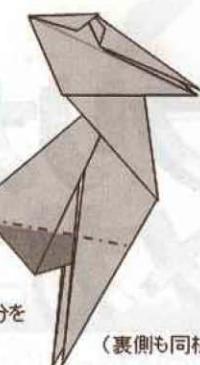


(裏側も同様ですよ)

工程 - 44

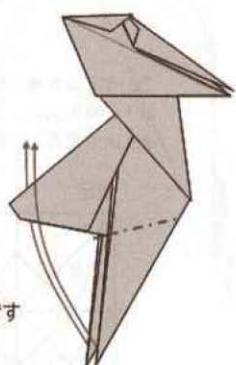


ピンクの部分を  
内側に



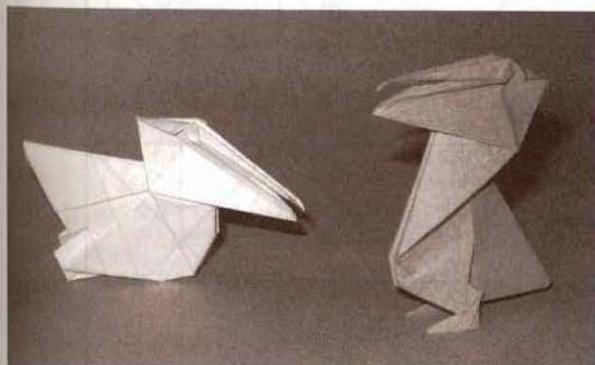
(裏側も同様ですよ)

工程 - 45

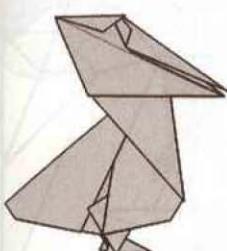


中割折です

工程 - 46

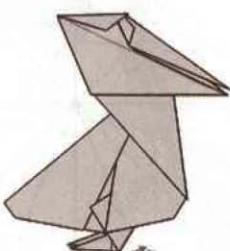


工程 - 49



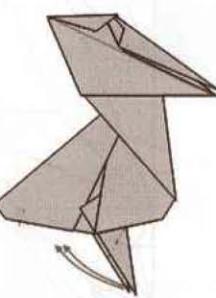
立つように足の折りを微調整して完成です。  
お疲れさまでした。

工程 - 48



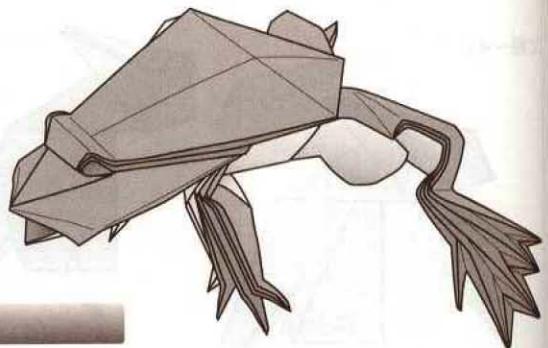
中割折です

工程 - 47



中割折です

# アフリカ ツメガエル



"Xenopus borealis" ©HOJOYO Takashi 2003

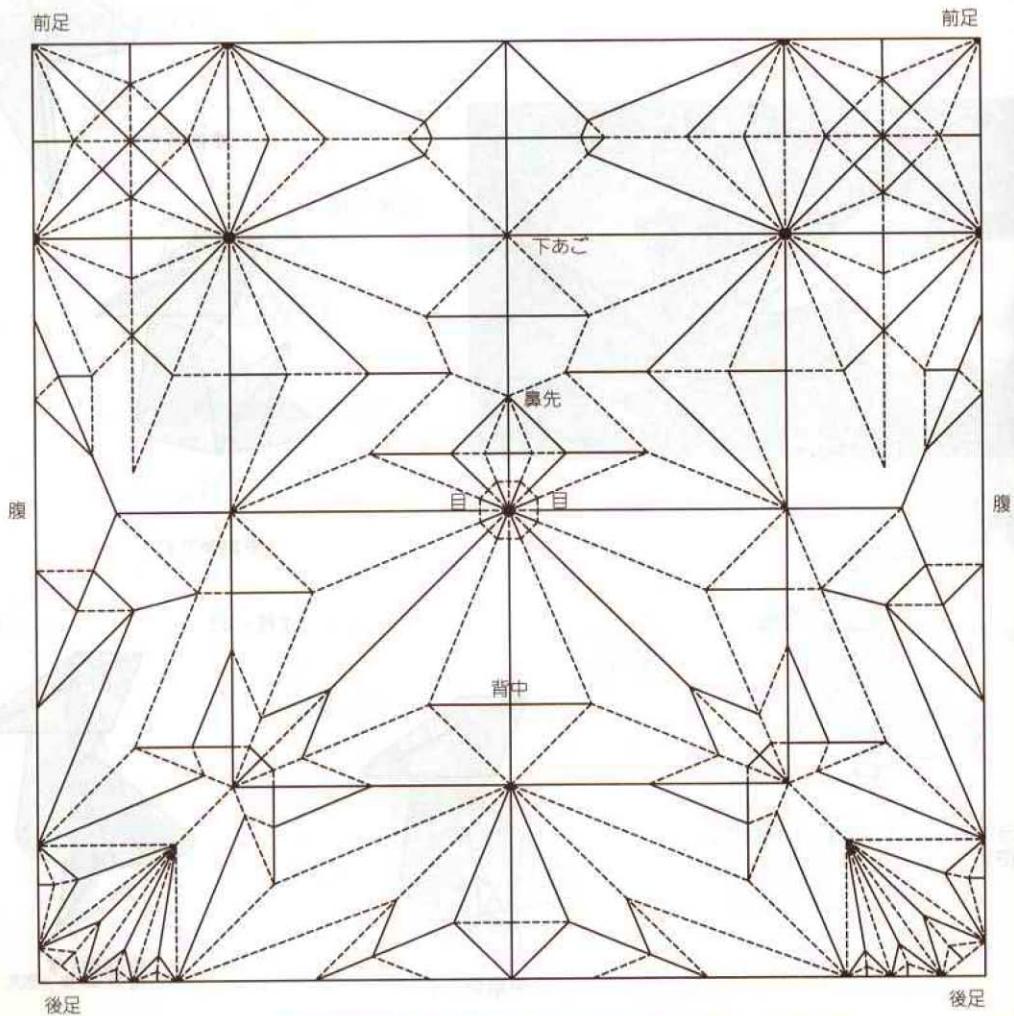
創作・図 北條高史

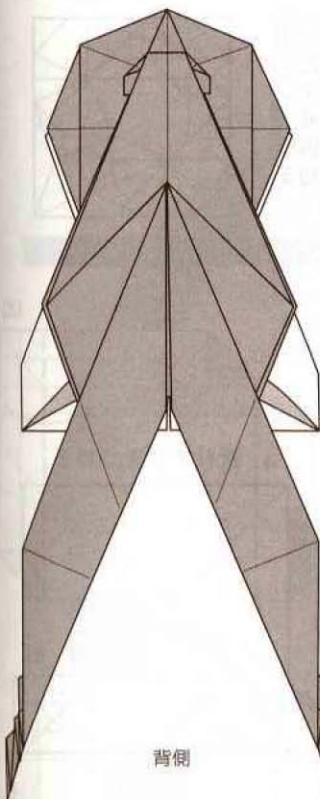
創作：2003/05/25

作図：2003/07/05

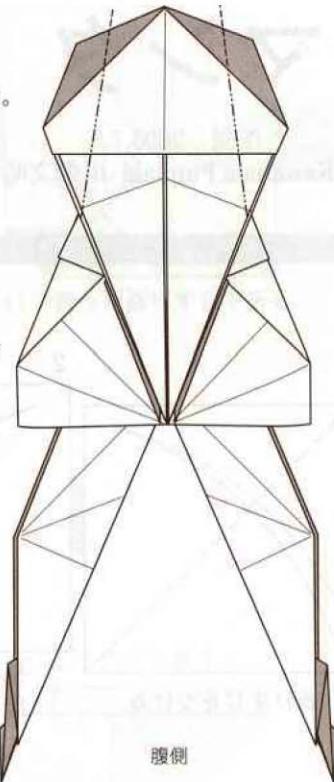
この作品は表裏の色が異なる用紙を用いると、背側と腹側を色分けした完成形にすることができます。

以下の展開図は、用紙の裏側（作品の腹側の色になるほう）から見たもので、点線が谷折り、実線が山折りとなります。よくよく見ると…基本的な比率は拙作「人物の基本形」と同じです。





背側



腹側

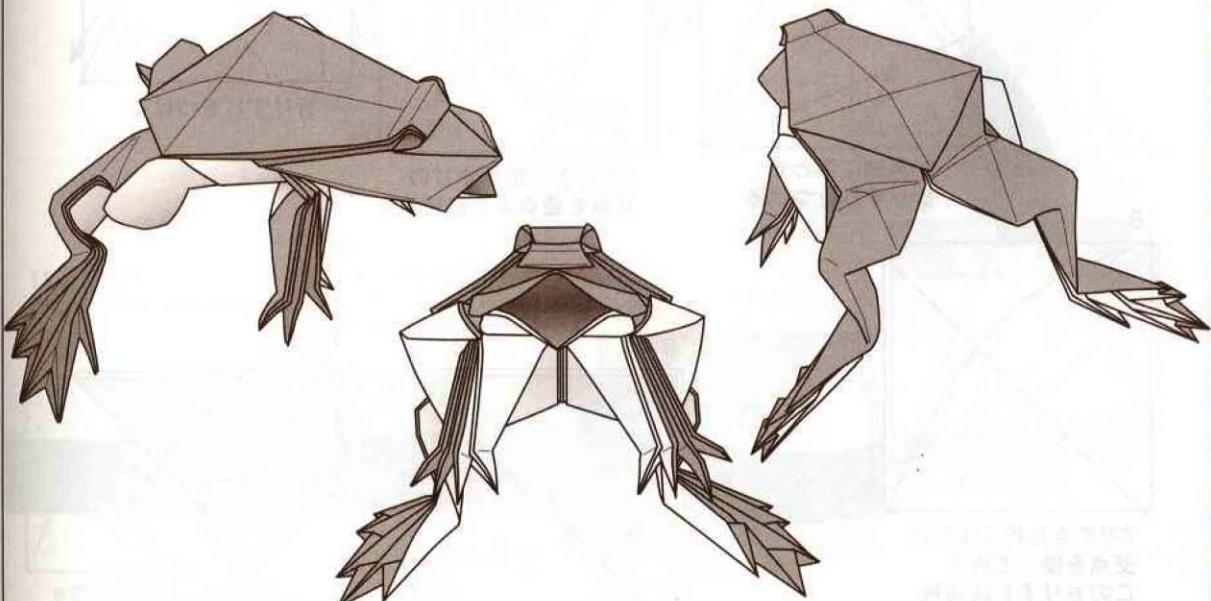
前頁の展開図通りに折ると、左右の図のようになります。腹の一部は平面的にぴったりとは折れずに、立体的に少し湾曲したような状態になります。

ここまでできたら、右の腹側の図にある折り線で頭部を細くし、下の完成図を参考にしてポーズを付けましょう。目の部分は、筒のように巻いて表現します。

前足の指は、腕の根元まで裂けた状態になっています。適度な長さを残して糊付けしてしまうのが簡単ですが、指の間の用紙を引き出し、隙間に差し込むことによって腕全体の開き止めを行い、同時に指の長さを調節するという方法も可能です。

本作の題材である「アフリカツメガエル」は、筆者が大学院時代に研究対象として扱っていた実験動物です。一般的によく見かけるのは *Xenopus laevis* ですが、本作は北方亜種である *borealis* を参考にしています。これは *laevis* よりも小型で、少々太めなのが特徴。水中での生活が主で陸上にあがることはなく、本当に図のようなポーズで水中に浮かんでいます。食欲旺盛で、実験室では牛レバーをサイコロ切りにしたものと与えていました。餌を前足で口にかき込む様子も、なかなかかわいらしいものでした。

目と目の間をもう少し広くしたかったのですが、作品として自然なまとまりが得られたので、このままで完成形としました。

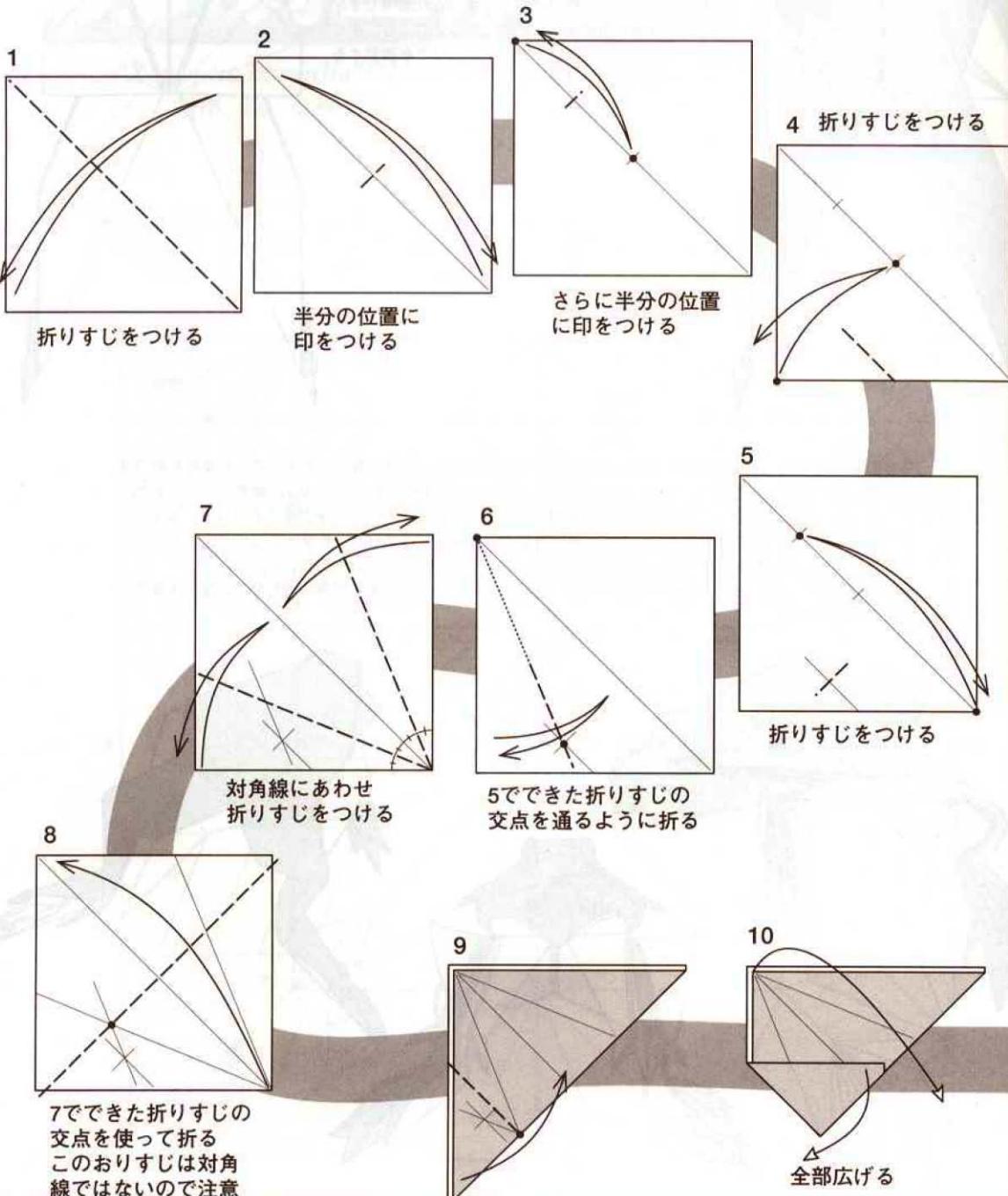
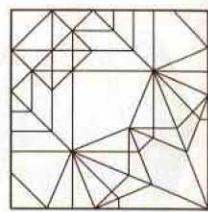


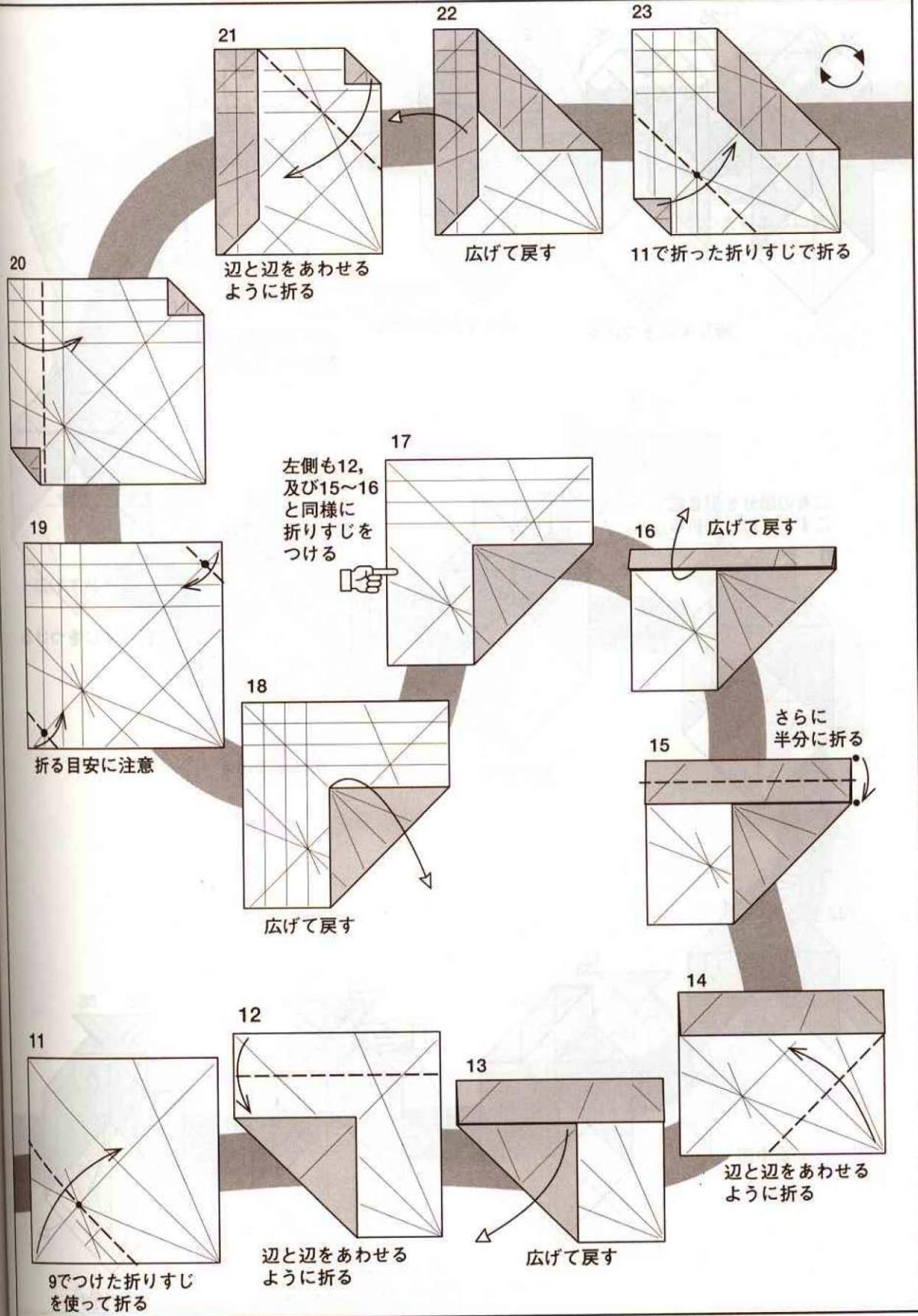
# マンタ

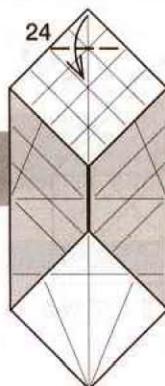
作図 2003.7.5

Kawahata Fumiaki 川畠文昭

約10年前のことですが、ある企画の展示用に吉野一生さんと私とでマンタの競作をしたことがあります。結局、吉野さんの素晴らしいマンタが展示用として選ばれたのですが、その時折った私の作品が最近段ボール箱の底から偶然見つかったため、これを機会に少し修正を加え折図にまとめてみました。

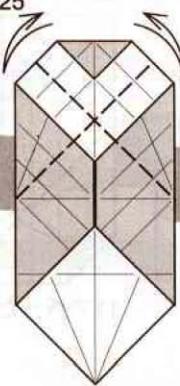






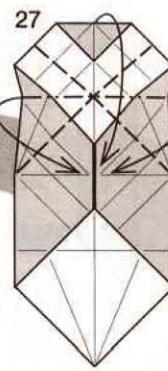
24

折りすじをつける

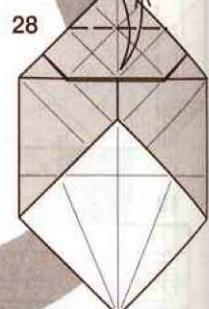


26

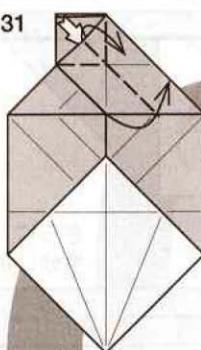
折りすじをつける



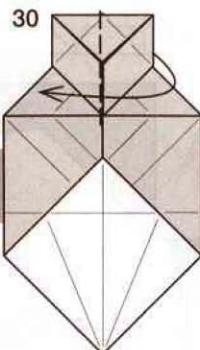
27

ついている折りすじ  
を使ってまとめる

28

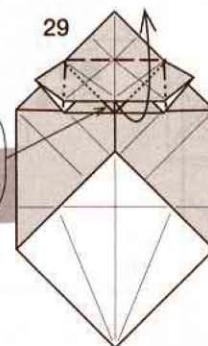
三角の部分を引き起  
こすようにして折る

31



30

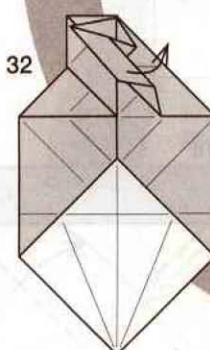
折り返す



29

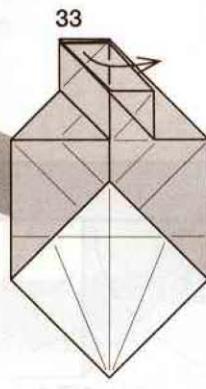
広げてつぶす

折りすじをつける



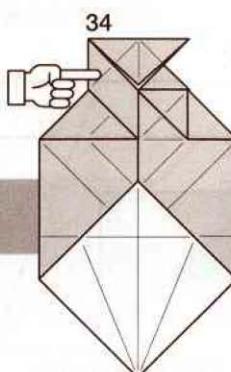
32

途中図

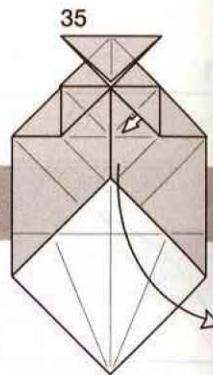


33

折り返す

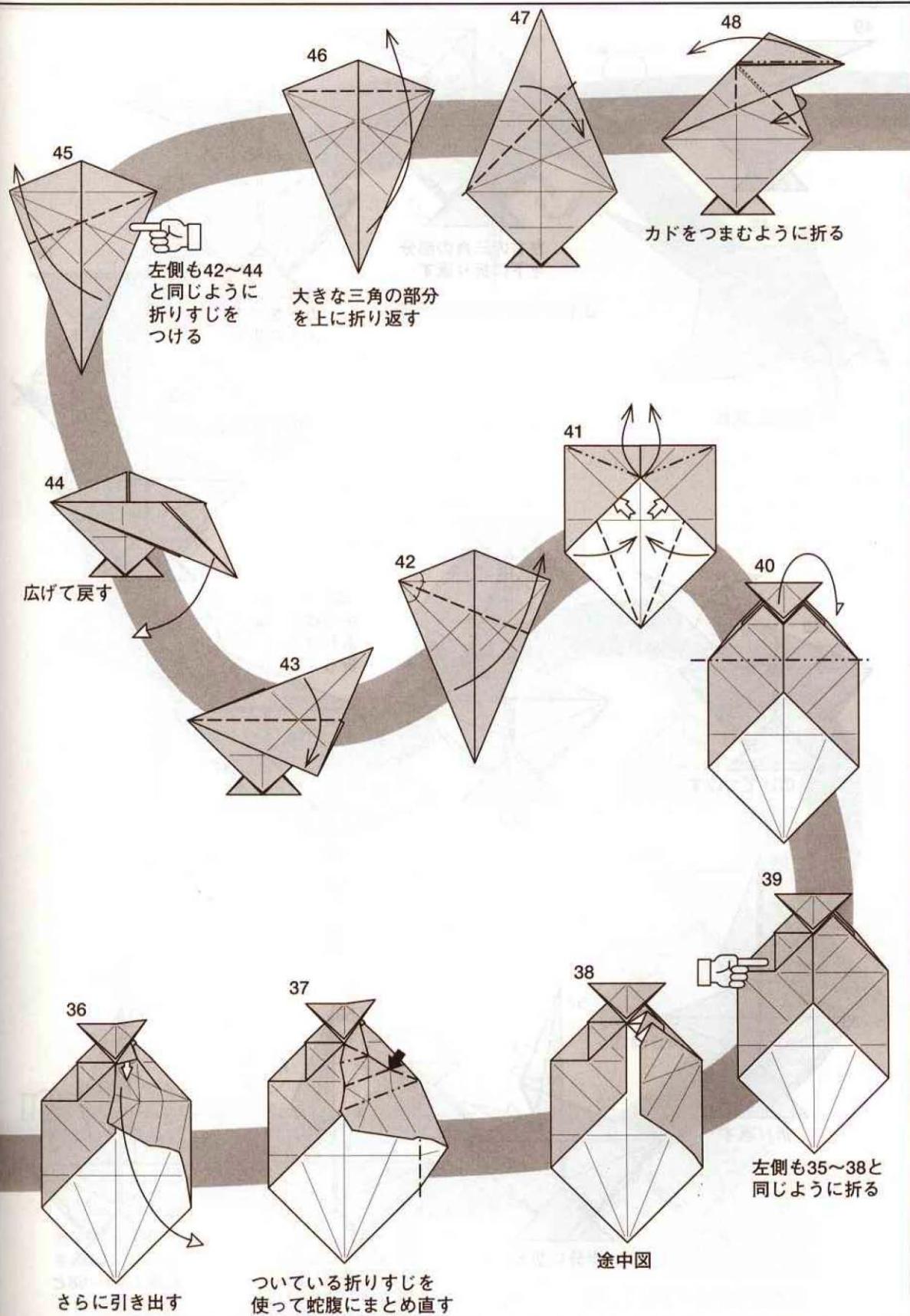


34

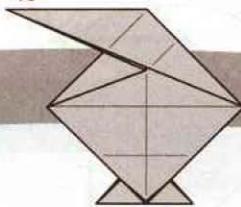
左側も30~33と  
同じように折る

35

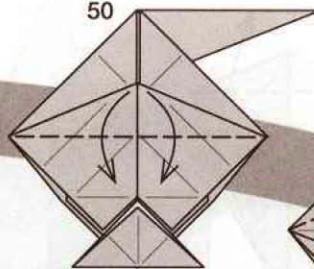
引き出す



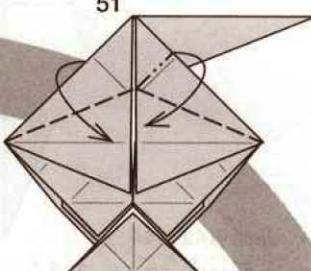
49



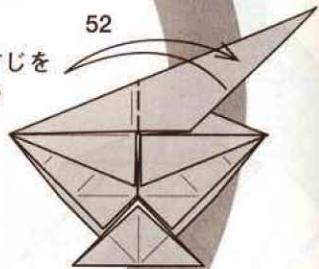
50

左右の三角の部分  
を下に折り返す

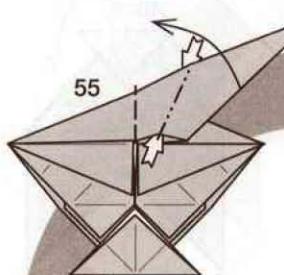
51

カドをつまむ  
ように折る

52

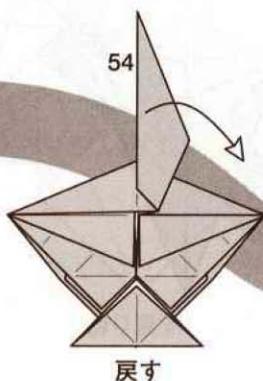
折りすじを  
つける

55



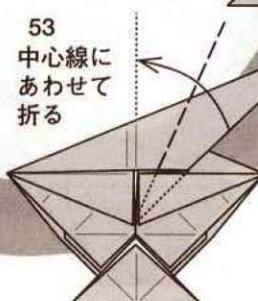
広げてつぶす

54

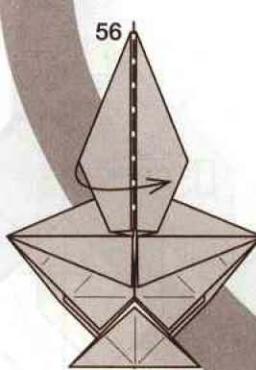


戻す

53

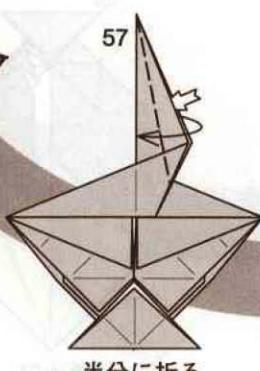
中心線に  
あわせて  
折る

56



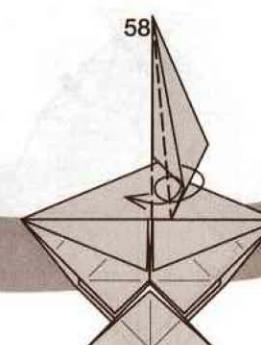
折り返す

57

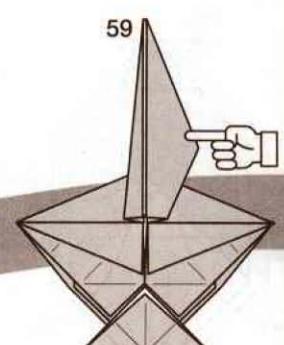


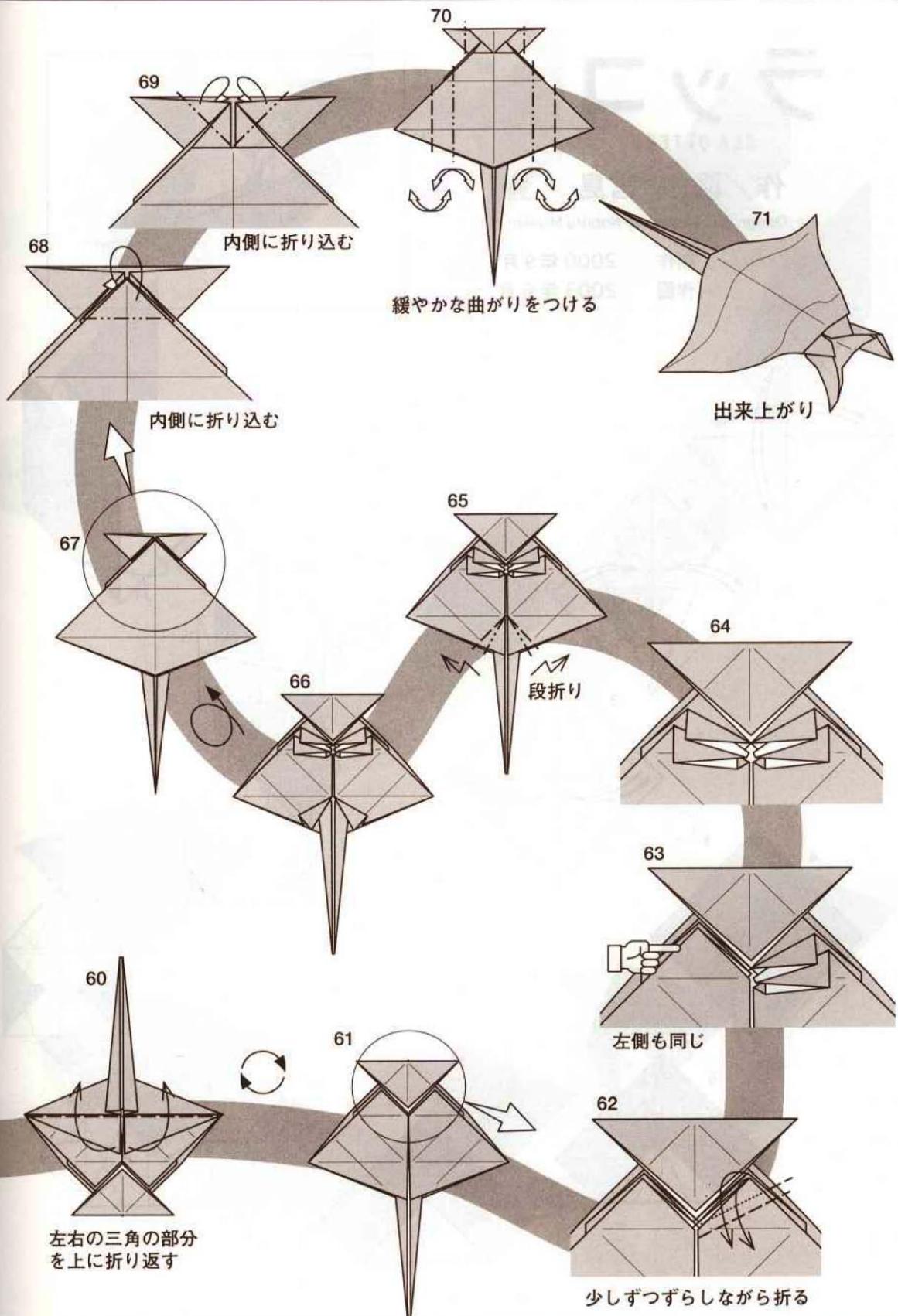
半分に折る

58

さらに半分に  
巻き込むように  
折る

59

右側も55~58と  
同じように折る



# ラッコ

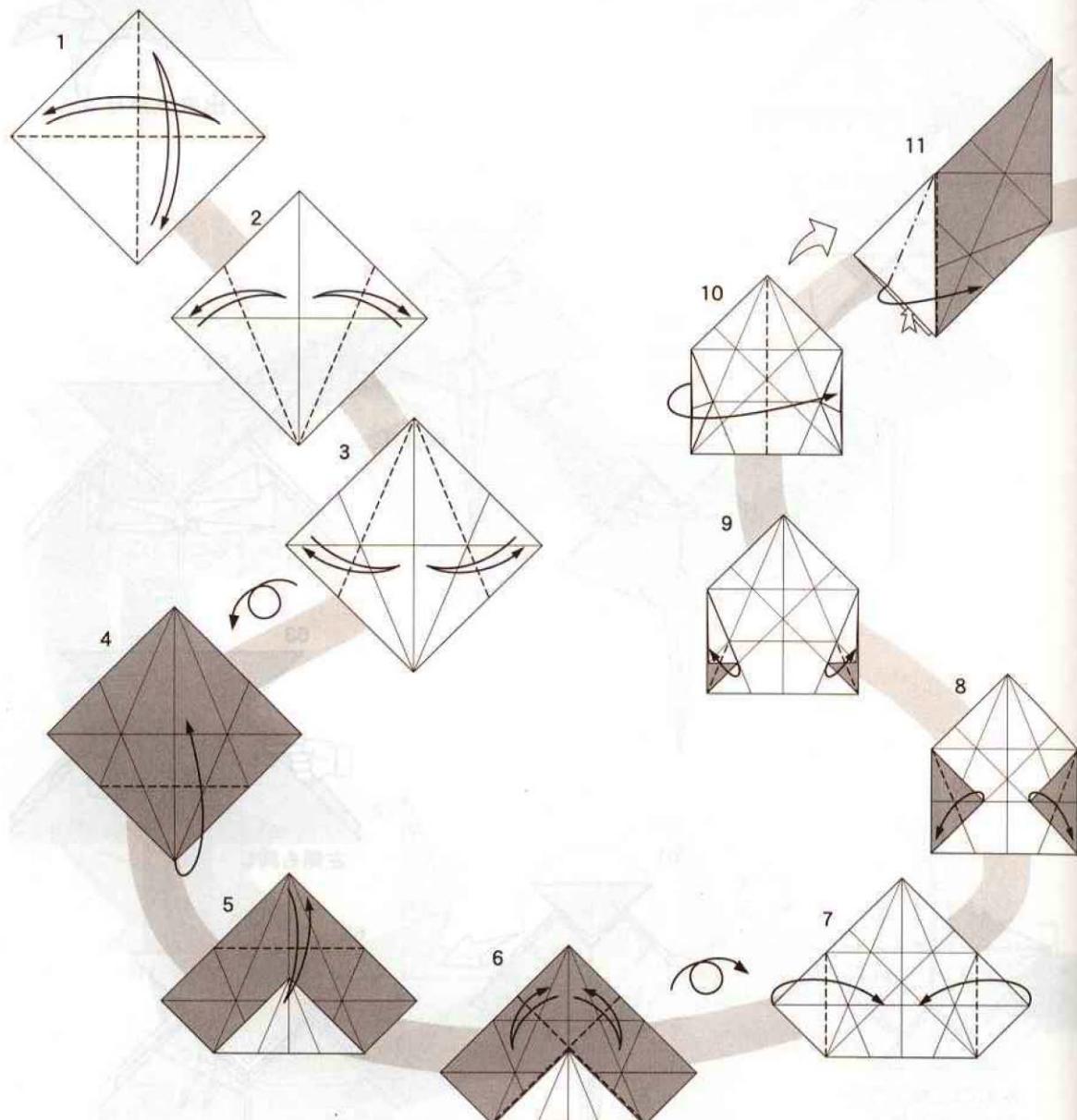
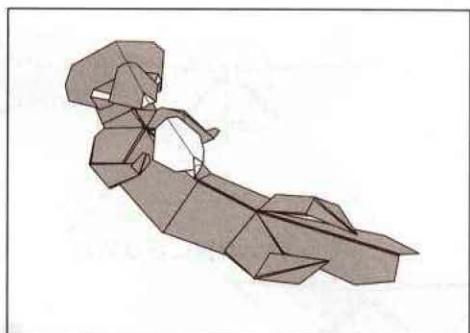
SEA OTTER

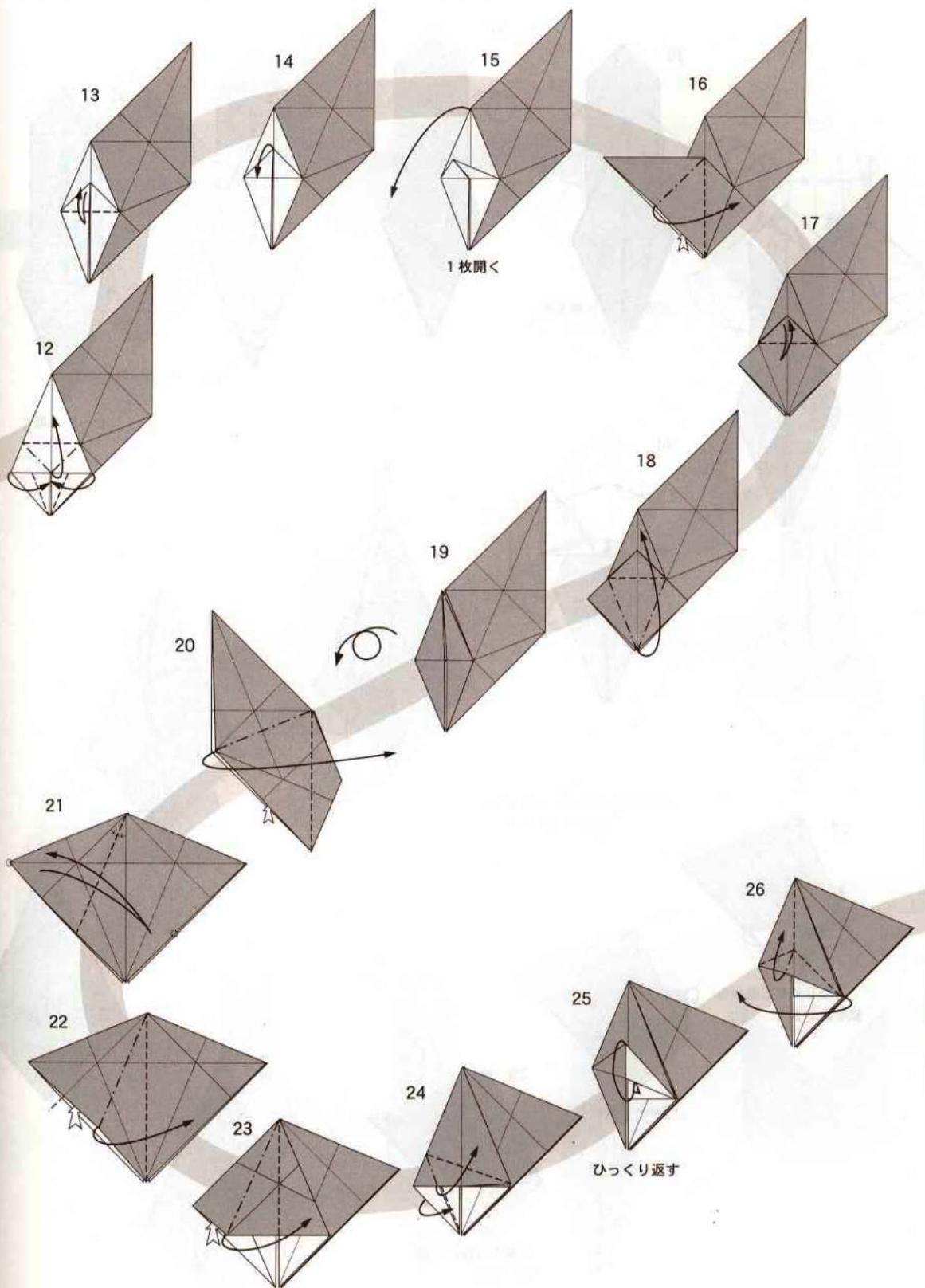
作／図 宮島 登

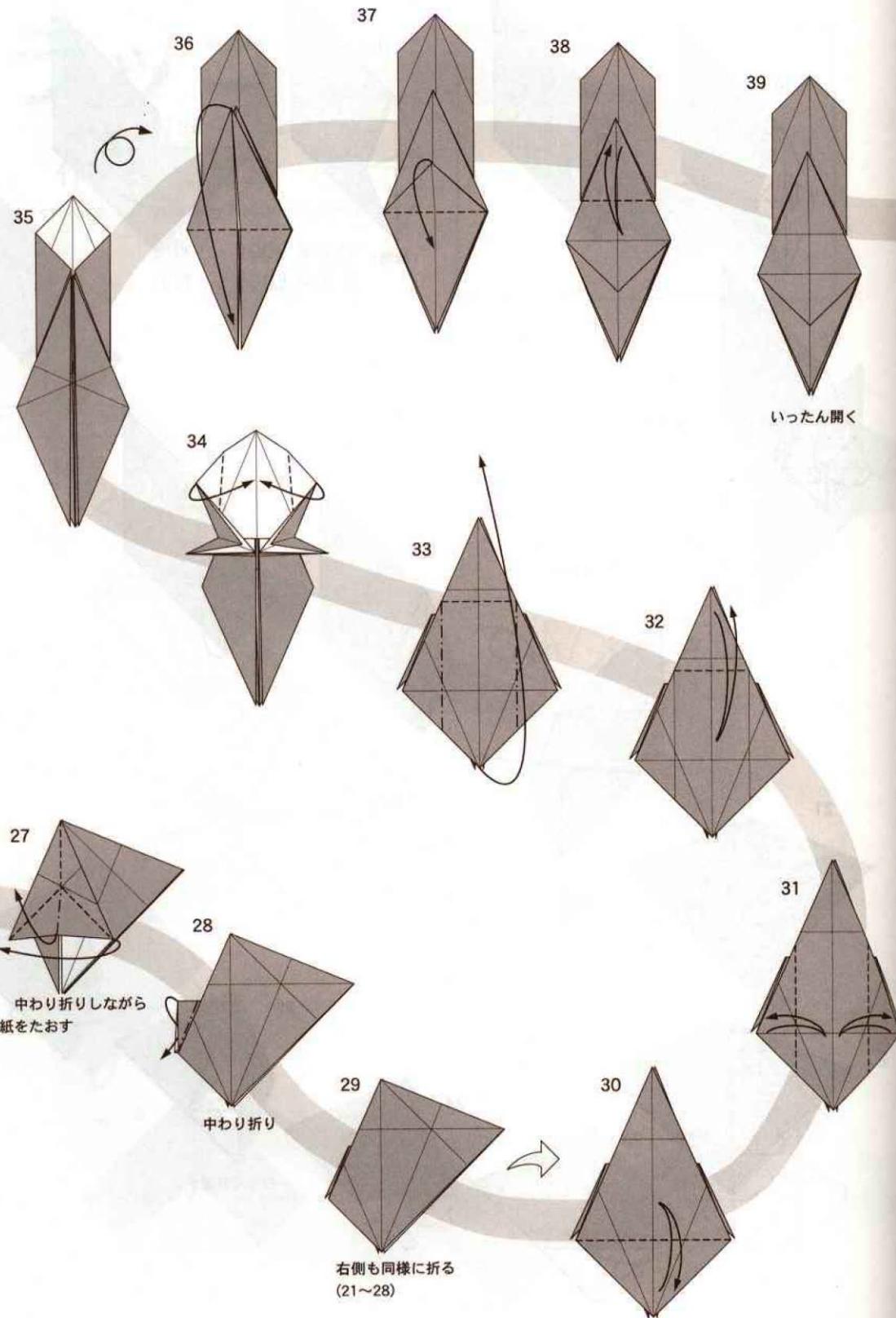
Design &amp; Diagrams By Noboru Miyajima

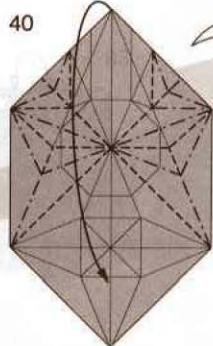
創作 2000年9月

作図 2003年6月

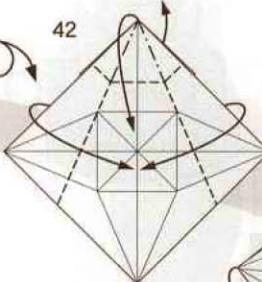
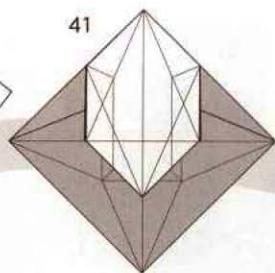








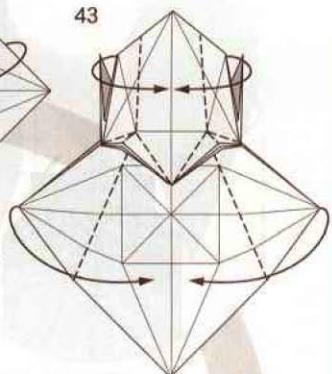
41



42

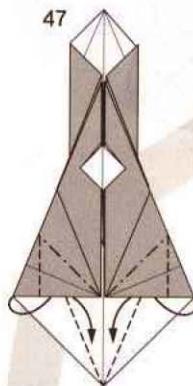
上部を折り返しながら、  
左右をたたむ

43

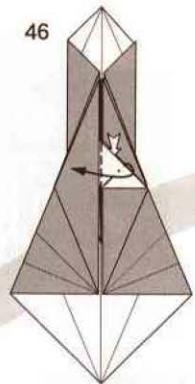


〔途中図〕

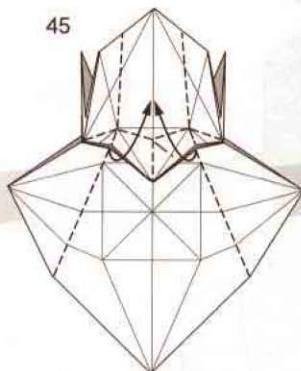
47



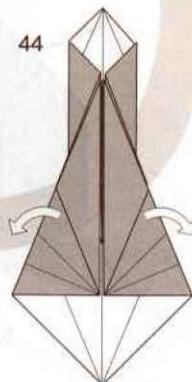
46



45



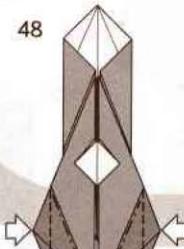
44



開く

内部の角を折りあげながら、  
左右をたたむたたむ

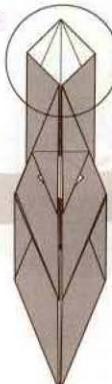
48



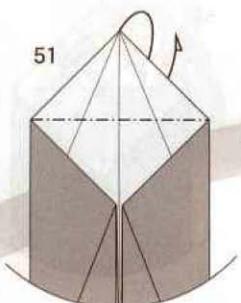
49



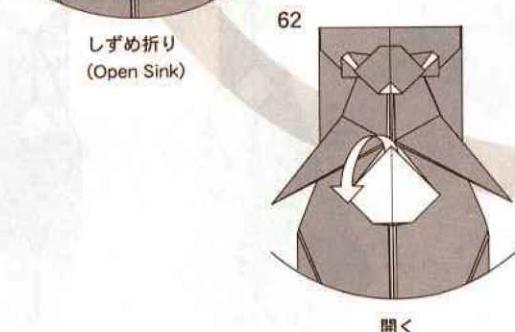
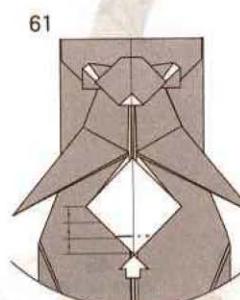
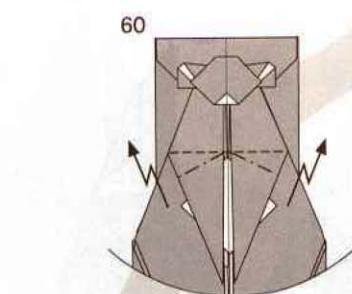
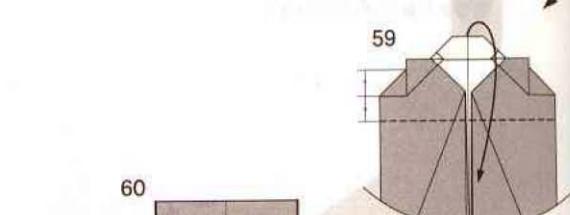
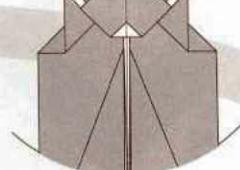
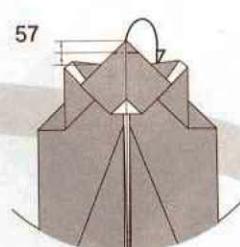
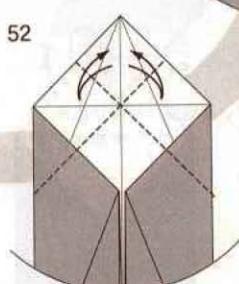
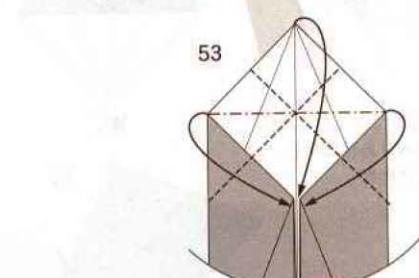
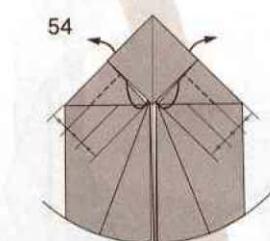
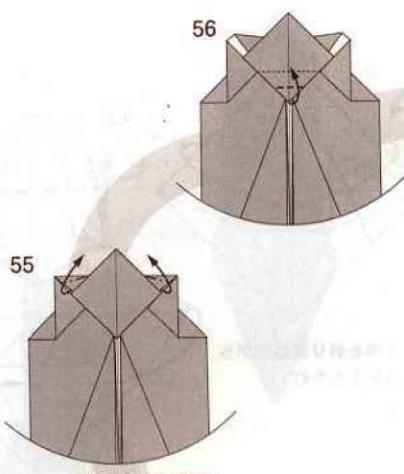
50

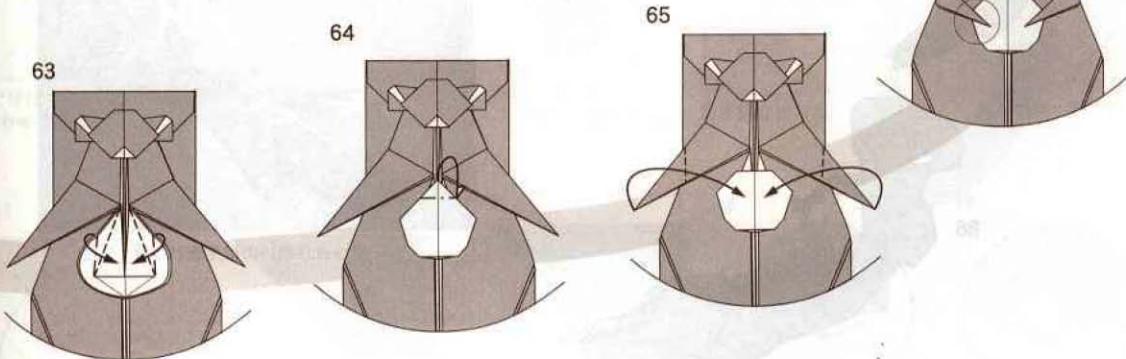
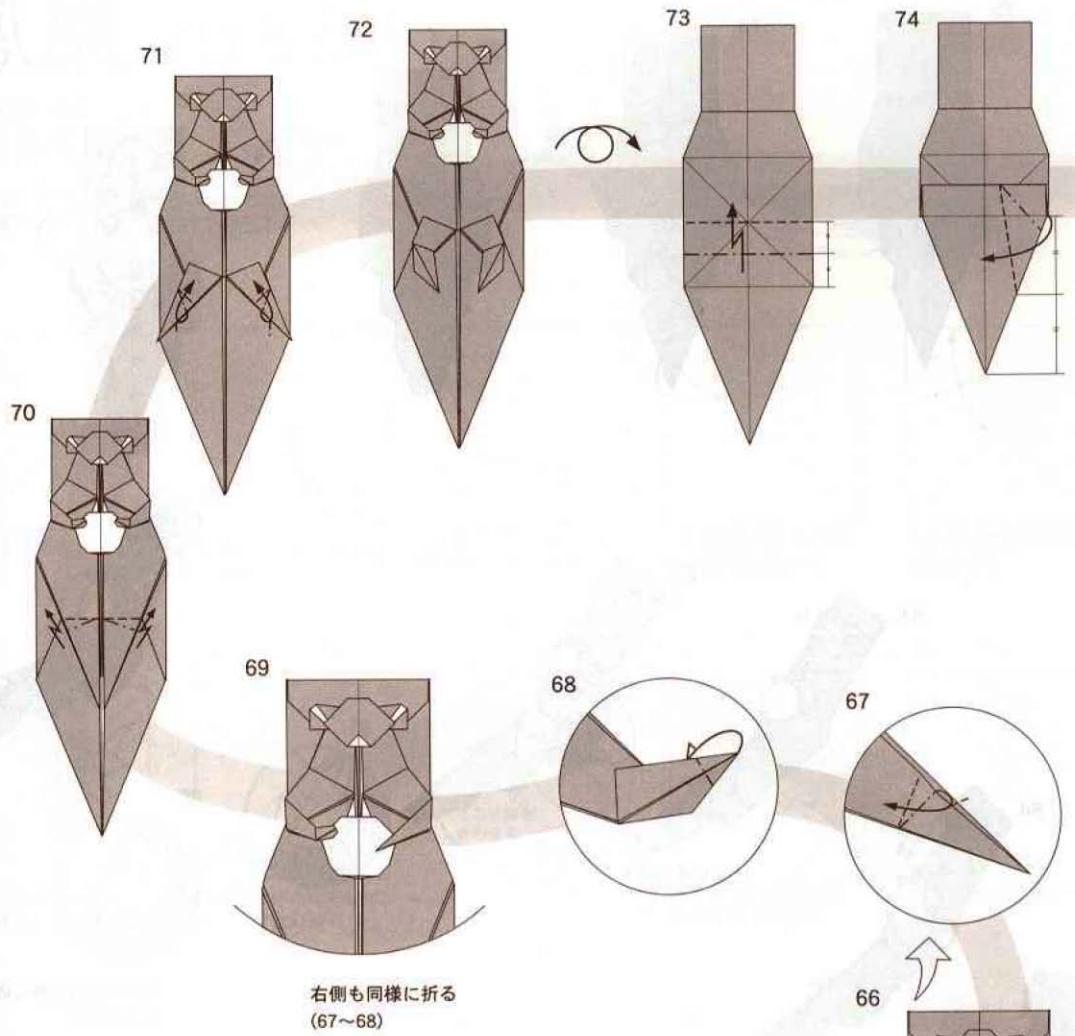


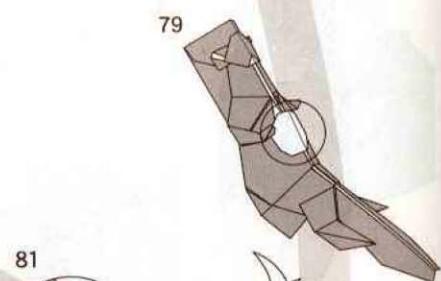
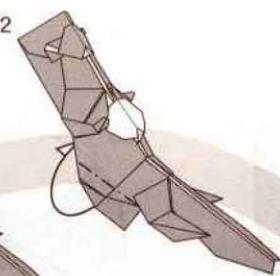
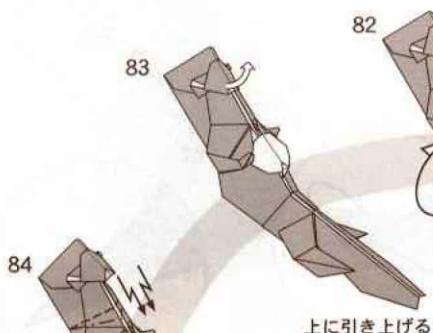
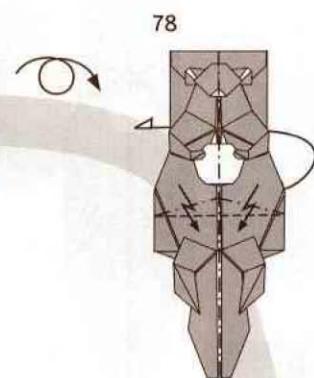
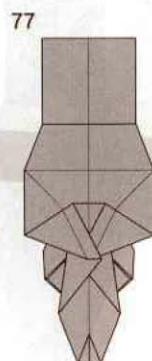
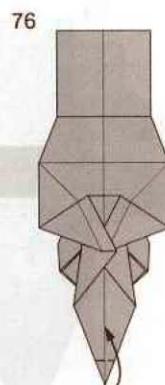
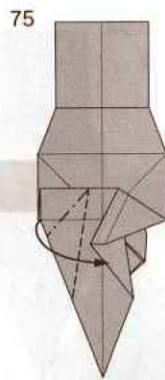
51



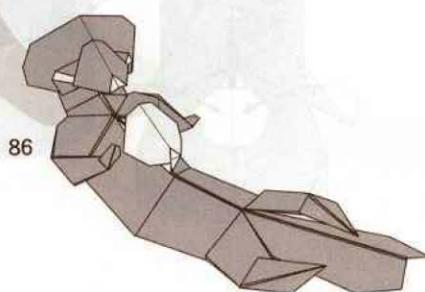
しづめ折り  
(Open Sink)



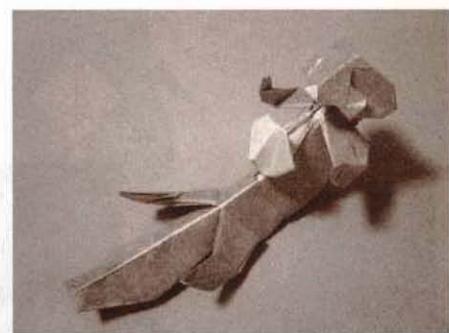




↑上に引き上げる

内側にななめに  
段折り

できあがり

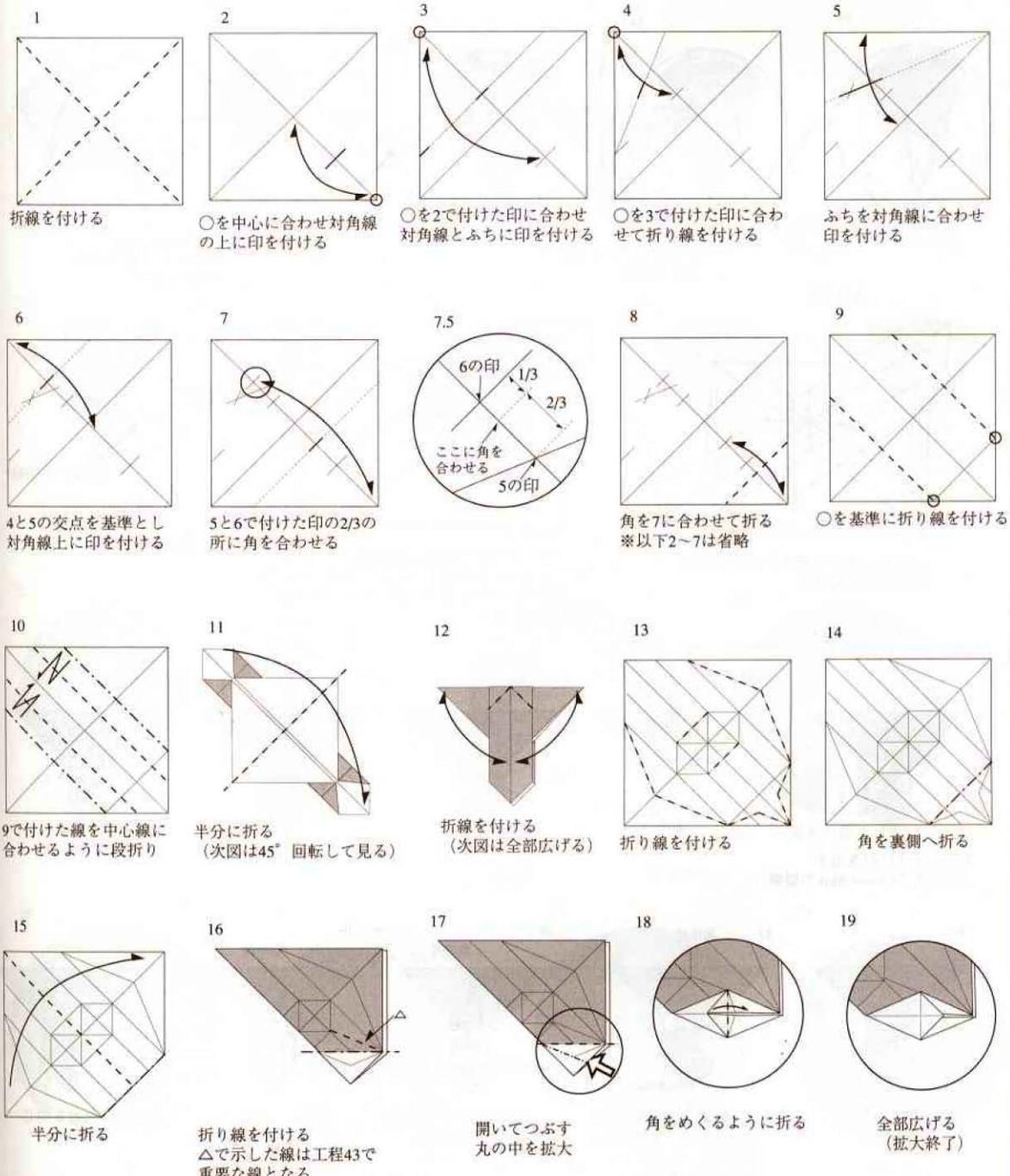
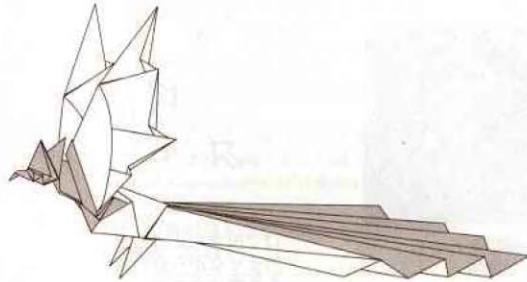


目つきが悪いのは生まれつき

# 鳳凰 (ほうおう)

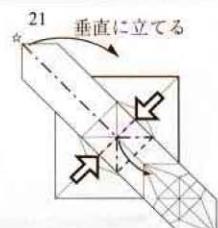
創作者：山口 智之  
創作：2003年5月  
作図：2003年5月

尾と内部の構造に見られる「沈め段折り」  
が難所。折り線をしっかり付けて下さい。

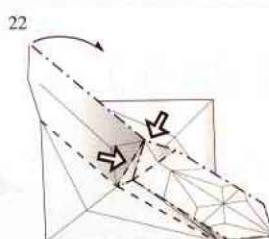




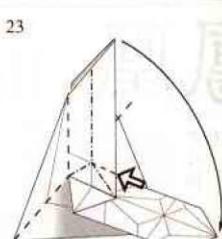
中心線に合わせる  
ように段折り  
(次図は裏返す)



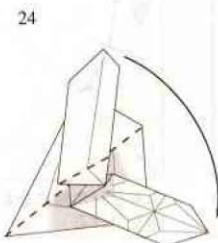
12で出来た正方形を  
凹ませながら☆の角  
を垂直に立てる



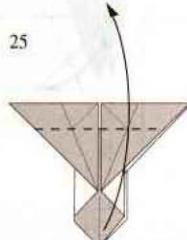
途中の図



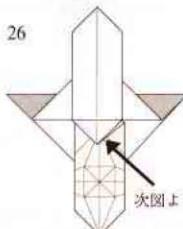
更に矢印部分を押し込むようにして  
平面にたたむ



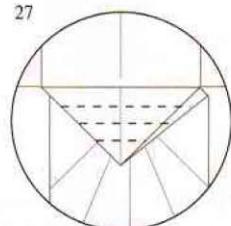
途中の図



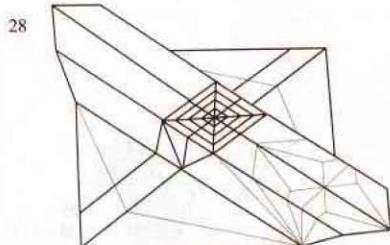
いっぱいに折れる所で  
折り上げる



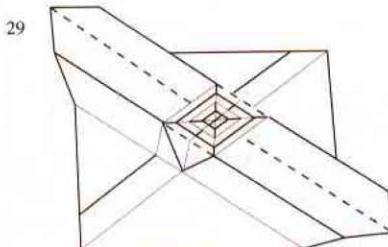
次図より拡大



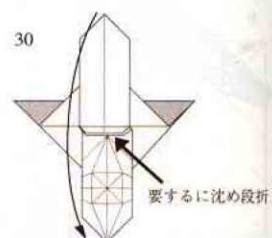
4等分の折り線を付け  
半開きにする



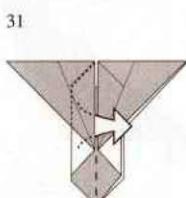
この図において細線で示した線を  
次図では省略する



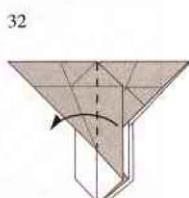
この図では太線を山折、細線を谷折とする  
なお、----は本来は谷折を示す線であるが  
この図においては山にも谷にも折らない線で  
あることを示す



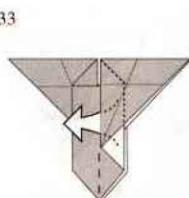
角を折り下げる



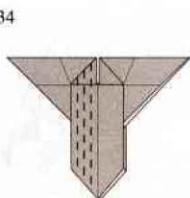
裏返すように引き出す  
(上の方はClosed Sinkの要領)



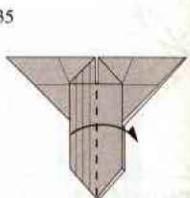
めくる



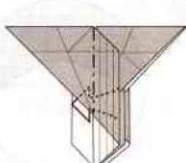
反対側も同じ  
裏側も同じ



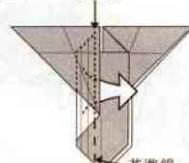
4等分



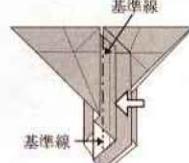
めくる



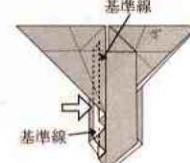
押し込む  
(31の逆)



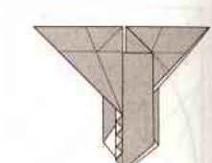
31の要領で裏返すように  
引き出しが、基準となる  
折り線は中心線より1つ  
左側の折り線となる。



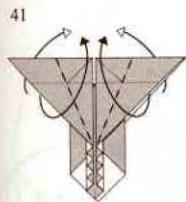
基準線に注意して  
36の要領で裏返す  
ように押し込む



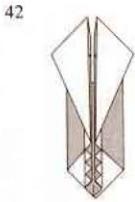
基準線に注意して  
37の要領で裏返す  
ように押し込む



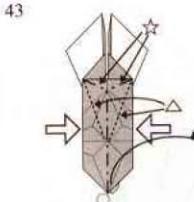
反対側も同じ  
(34～39)



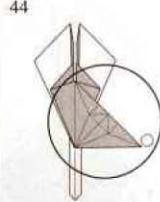
かぶせ折



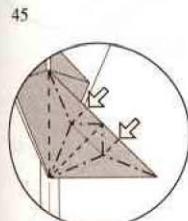
裏返す



矢印の部分を凹ませながら  
16の△で示した折線を山折にする。  
この面からは見えないが、  
△で示した線を外側から見て  
山折にする。  
☆で示した山折線はこの工程  
で新たに付く線であるが紙を  
ゆがみなくたためば自動的に  
付く線である。  
○の角が浮き上がってくるので  
右側へたおす。



○の中を拡大



鶴の基本形をたたむ

めくる  
(更に拡大)

折り線を付ける

沈め折り  
(open sink)

めくる

折り線を付ける

沈め折り  
(open sink)

反対側も同じ  
(47~51)

後ろの角に合わせて  
角を折り下げる

更に拡大

折り線を付ける  
53の形に戻す

半開きにする

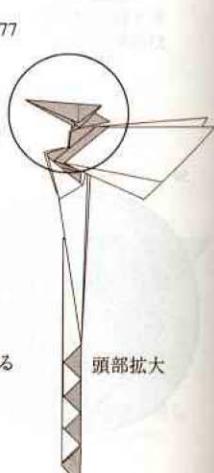
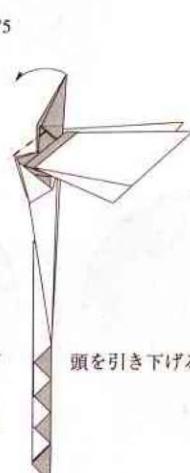
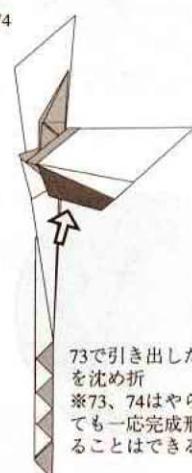
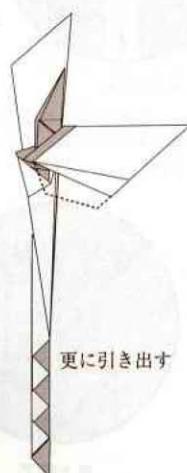
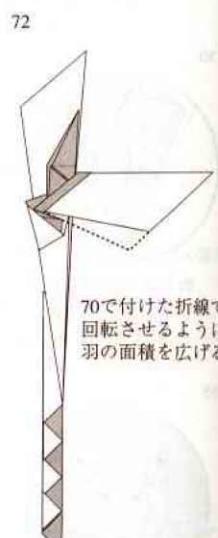
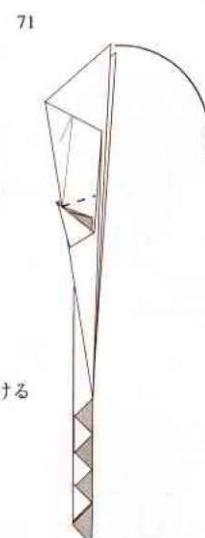
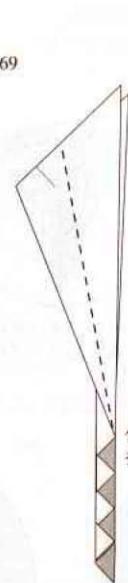
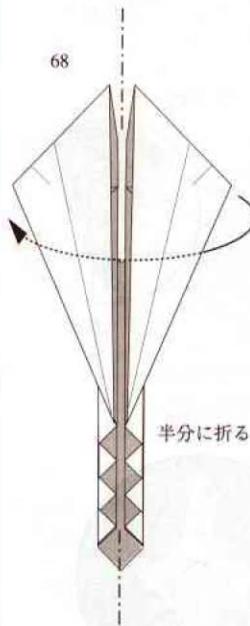
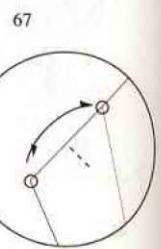
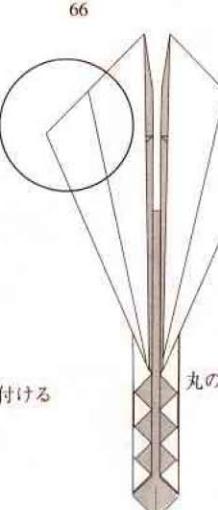
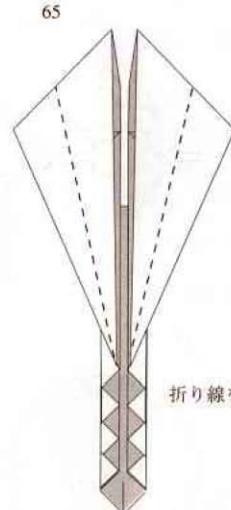
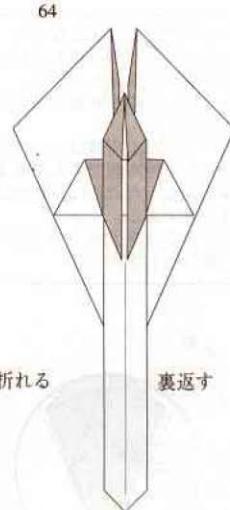
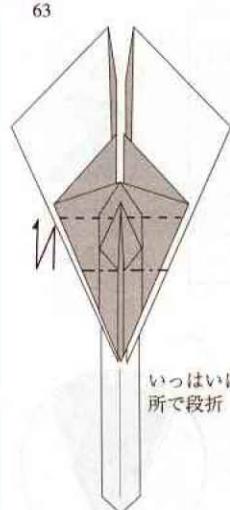
凹のひし形を凸にして閉じる

途中の図

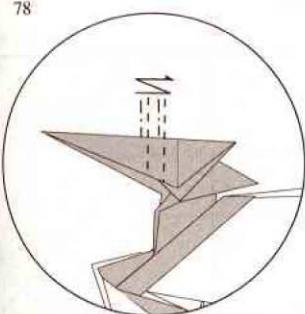
角を2枚後ろ側へ折る

拡大終了

89

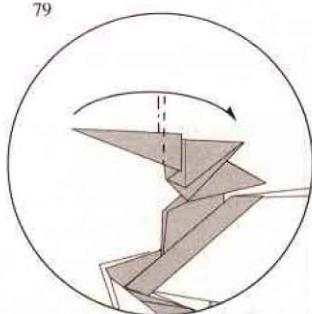


78



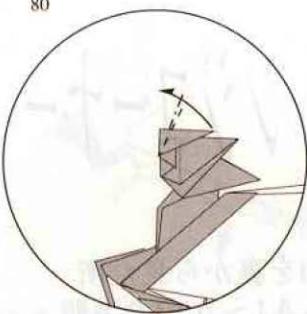
かぶせるように段折

79



かぶせ折

80



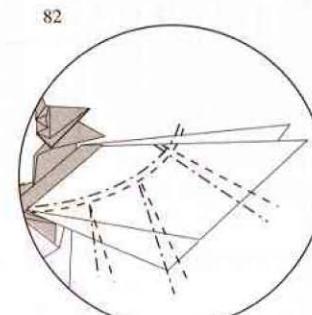
かぶせ折

81



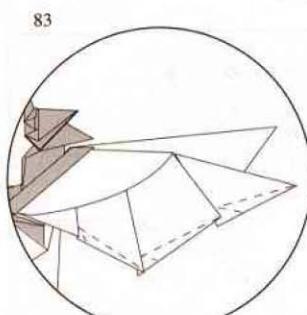
中わり折  
次図は翼を拡大

82

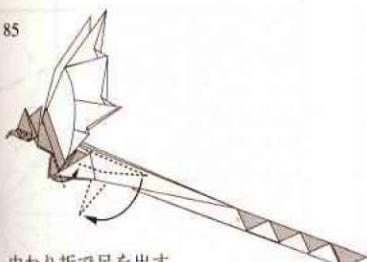


翼に表情を付ける

83

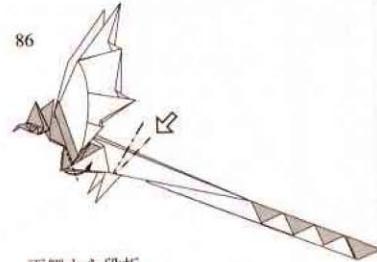


85



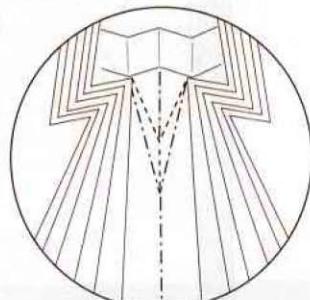
中わり折で足を出す

86

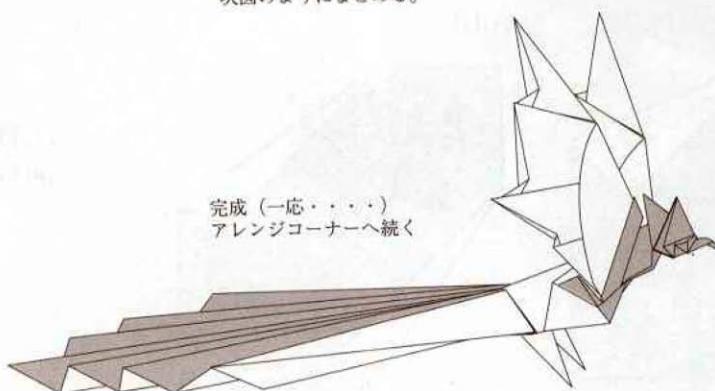


両側から段折  
矢印の方から見ると13層あるが手前側から6層  
向こう側から6層づつ段折をする。  
真ん中の層は、どちらか片側に寄せるか凹ませて  
次図のようにまとめる。

86.5

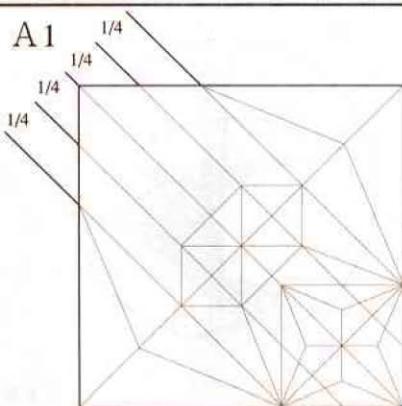


完成(一応……)  
アレンジコーナーへ続く

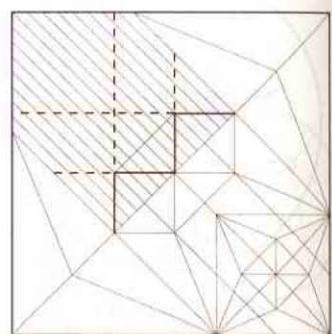


# アレンジコーナー

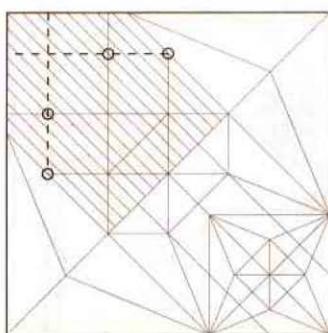
図20を裏から見た所  
からA1～A10の手順  
で折り線を付ける。



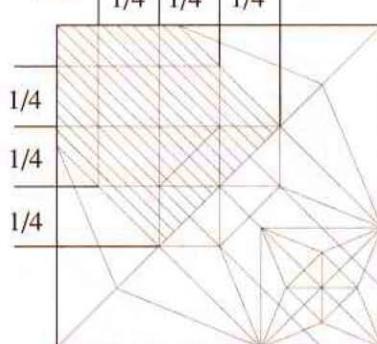
A2



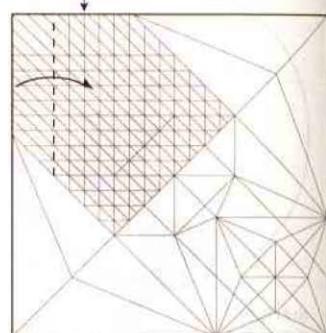
A3



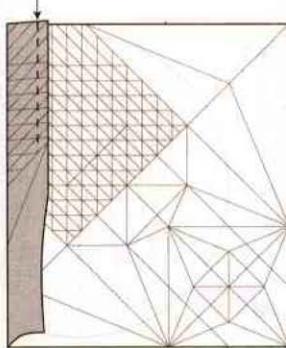
A4



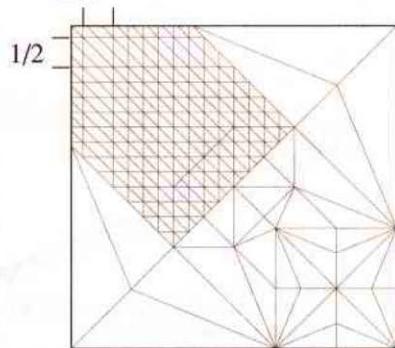
A5



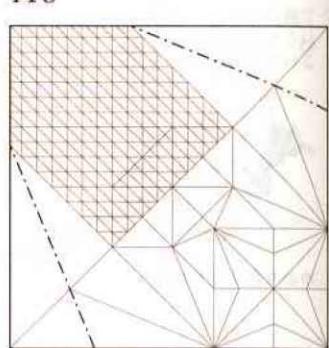
A6



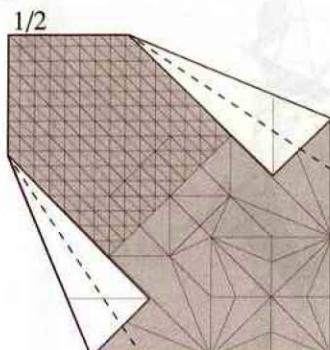
A7



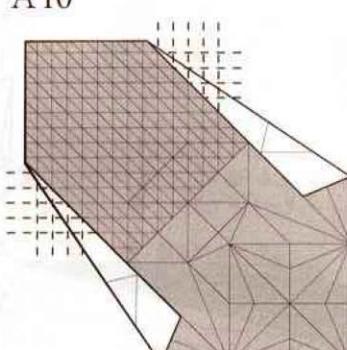
A8



A9

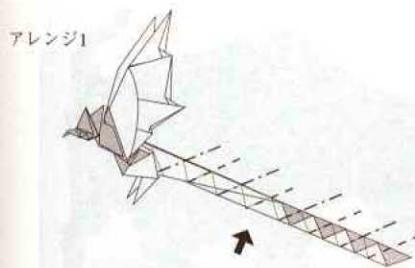


A10

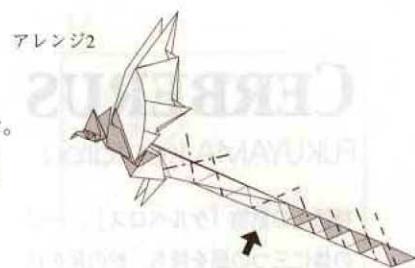


A11

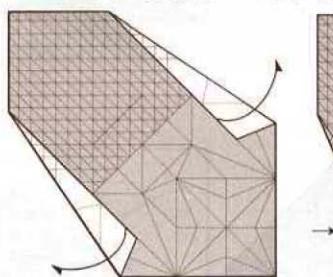
工程20～85まで  
同様に折る。



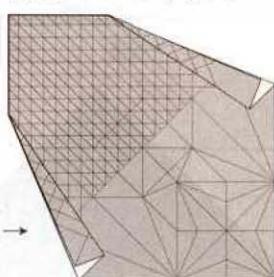
開いた中割折り（Opensink）を繰り返す。  
図に示される折線は、尾を半開きにし  
矢印の方から見てつながっている線を  
全て山（もしくは谷）にする。



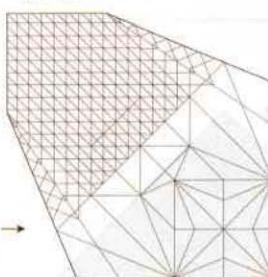
実際には尾の部分のみを半開きにして作業します



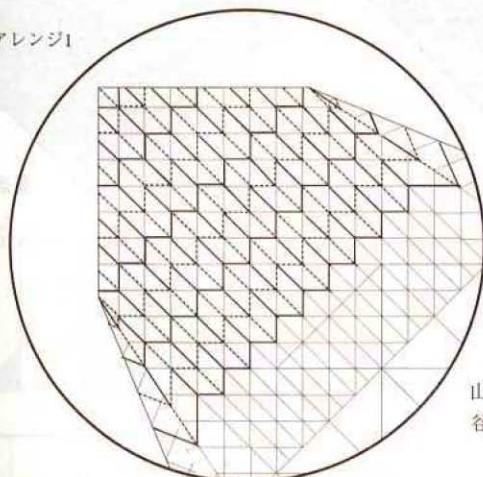
工程A10を次図のよう開いて



次図では裏返す

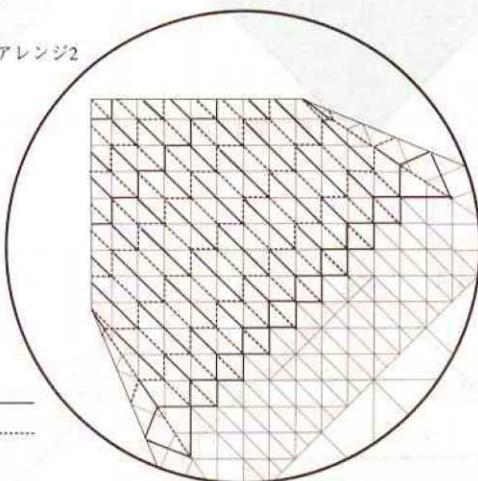


アレンジ1

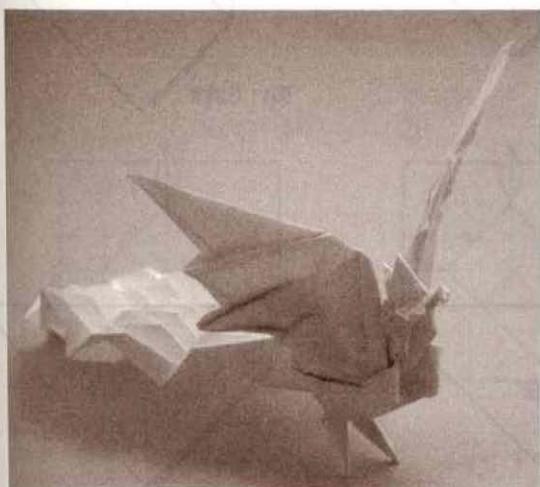


山 —————  
谷 -----

アレンジ2



アレンジ1



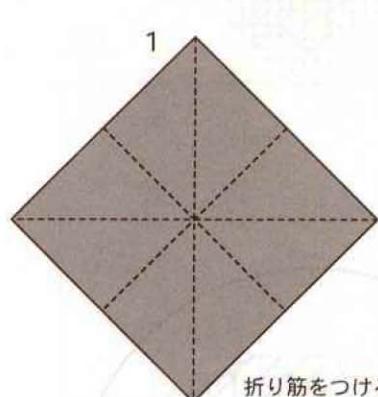
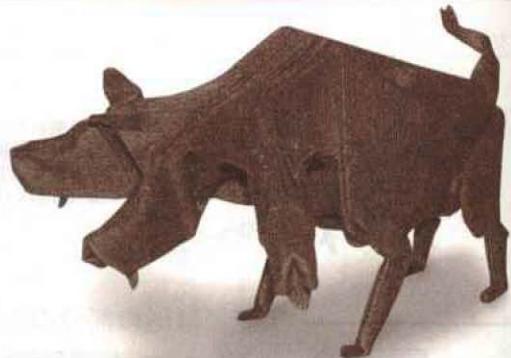
アレンジ2



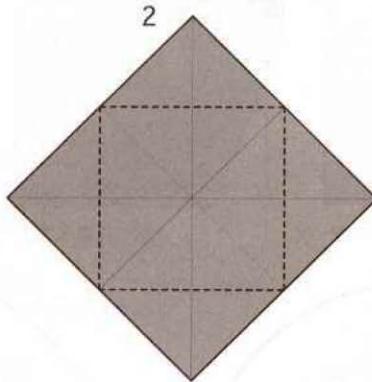
# CERBERUS

FUKUYAMA Kentarou

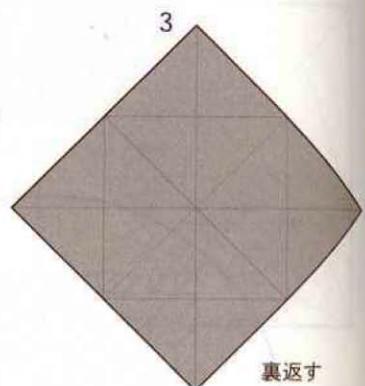
神話上の動物「ケルベロス」。一つの体に三個の頭を持ち、蛇の尾を持つ犬。地獄の番犬。



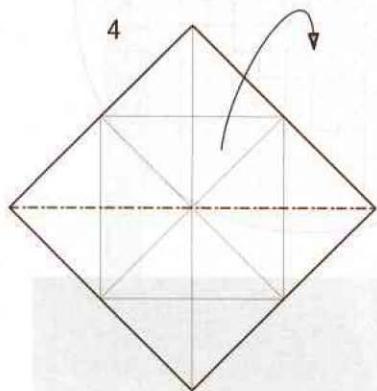
折り筋をつける



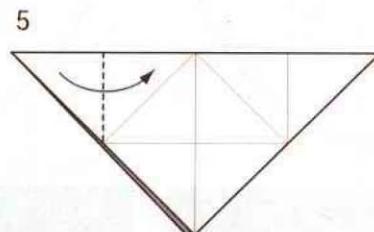
2



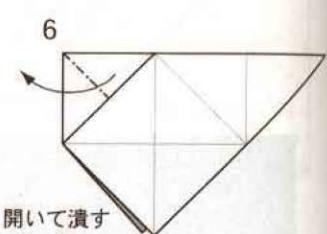
3



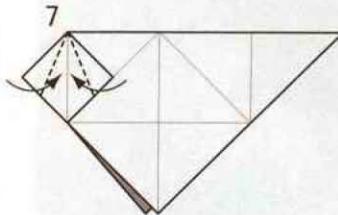
4



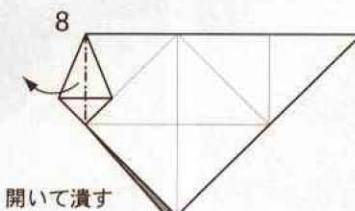
5



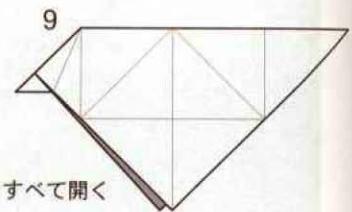
開いて潰す



7

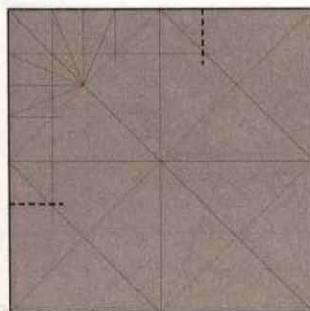


開いて潰す



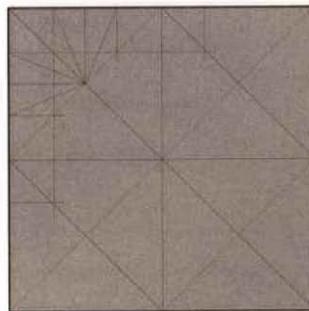
すべて開く

10



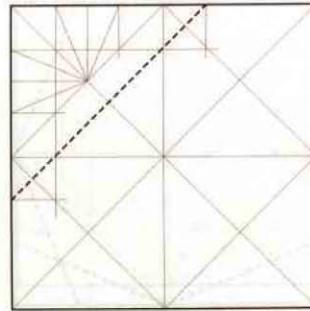
折り筋をつける

11



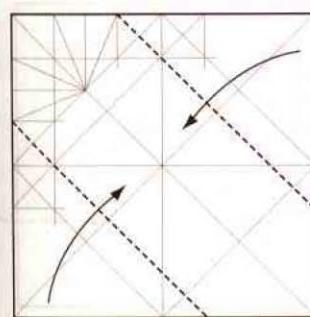
裏返す

12

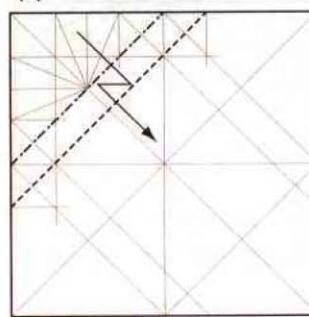


ひたごと折り立てる

13

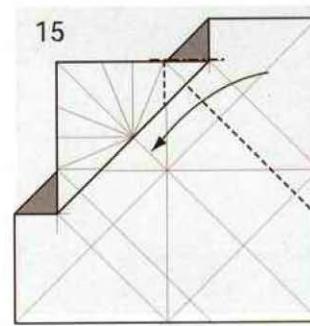


14

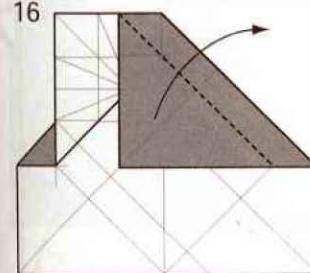


段折り

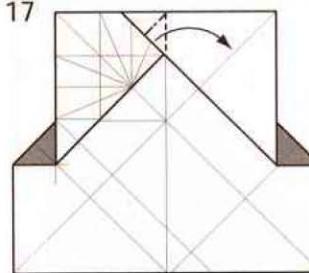
25



16

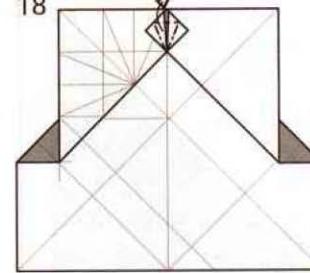


17



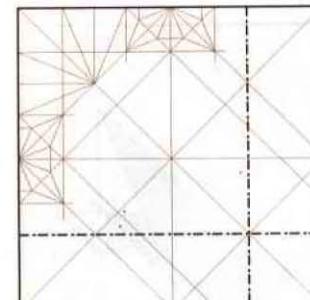
開いて潰す

18

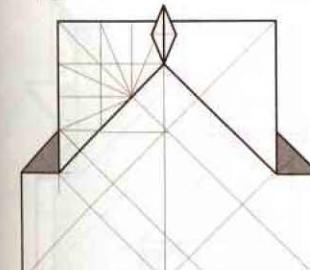


開いて潰す

21



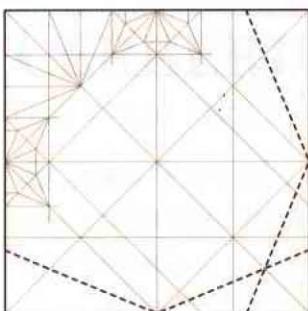
19



すべて開く

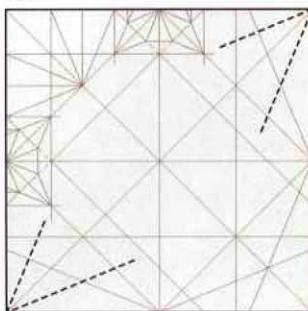
反対も15~19と同じ

22

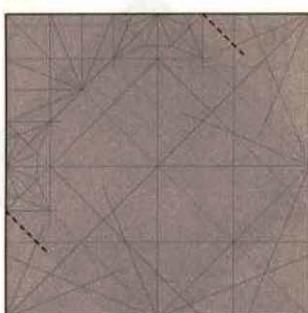


折り筋をつける

23

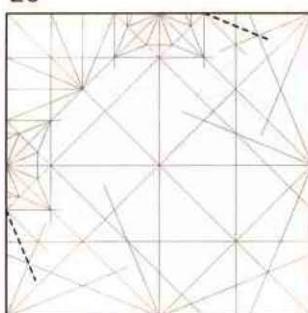


25

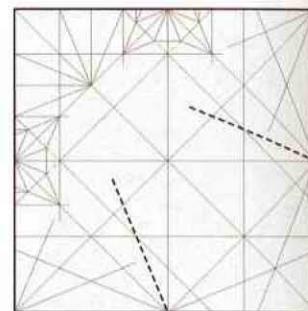


裏返す

26

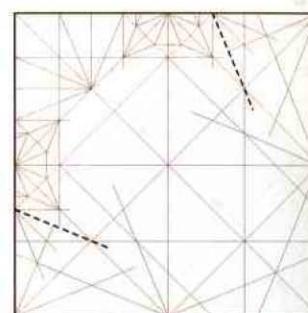


24

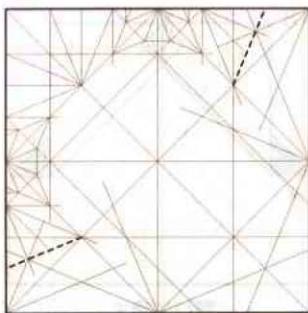


裏返す

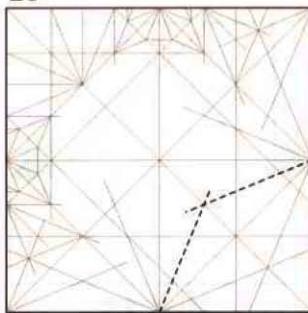
27



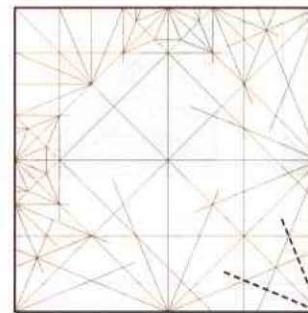
28



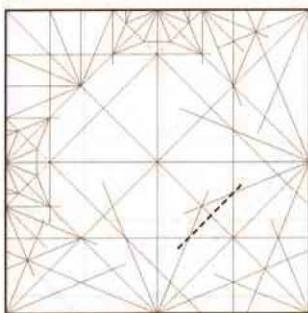
28



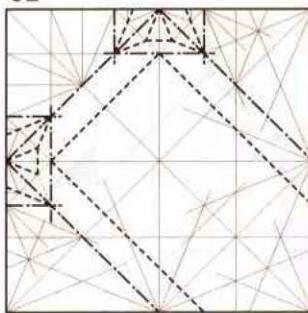
30



31

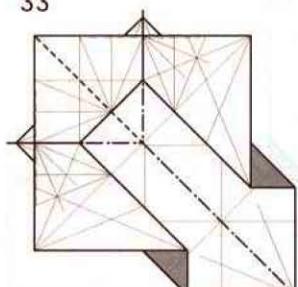


32



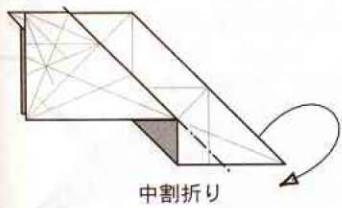
折り筋に沿って折り畳む

33

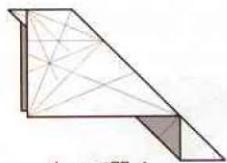


折り筋に沿って折り畳む

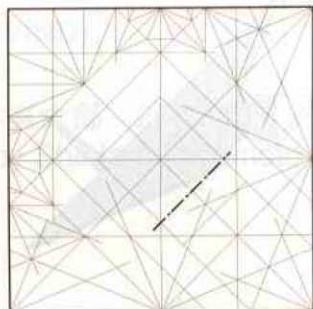
34



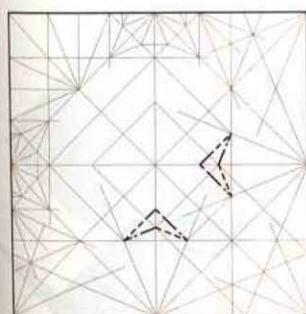
35



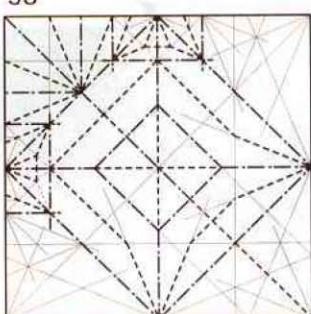
36



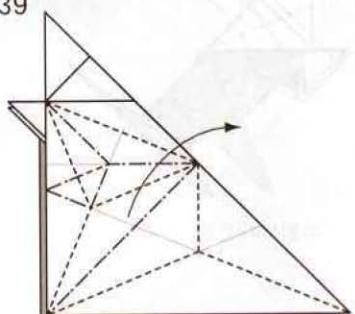
37



38

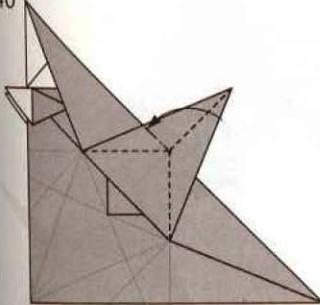


39



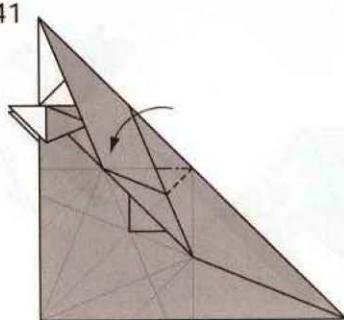
折り筋に沿って折り重む

40



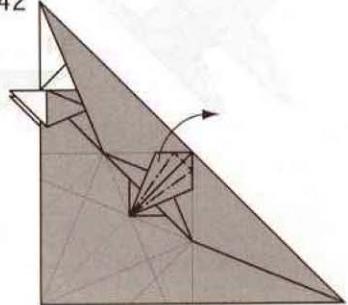
つまむ様にして折る

41



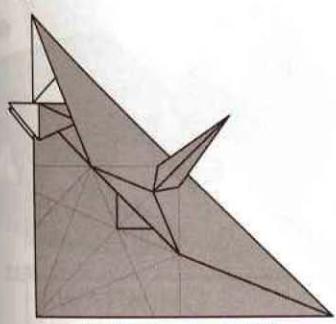
中割折り

42



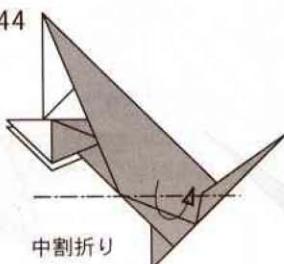
ひらいて潰す

43



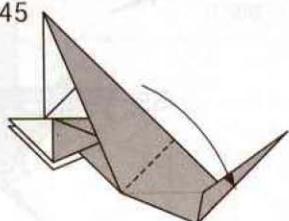
反対も39~42と同じ

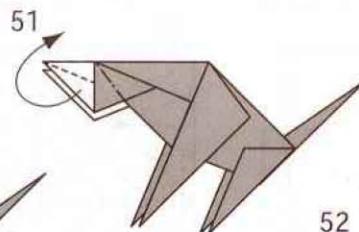
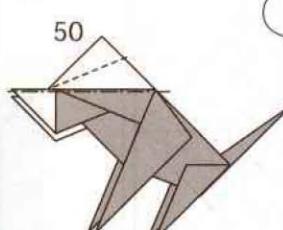
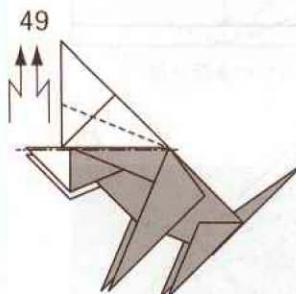
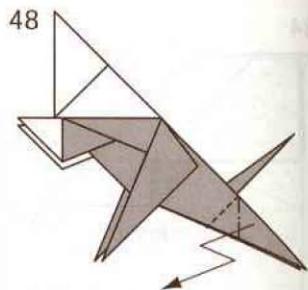
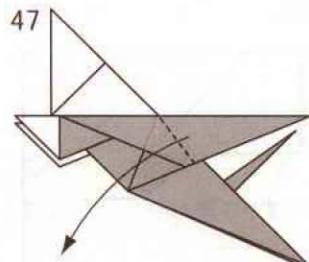
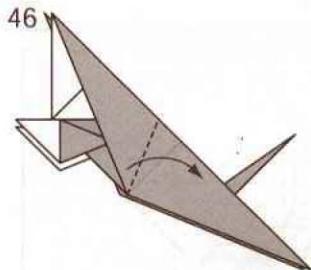
44



中割折り

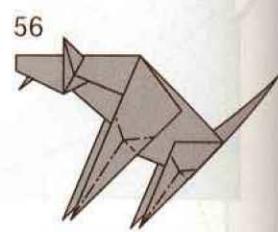
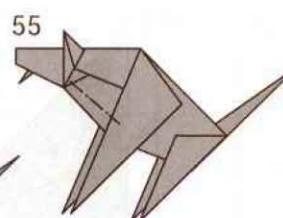
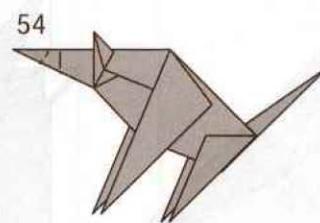
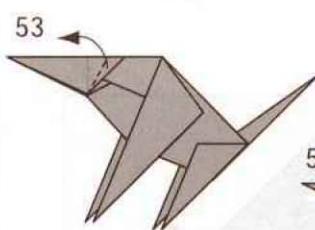
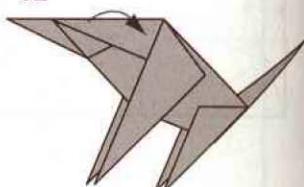
45





中割折り

52

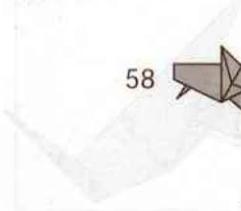


中割折り二回

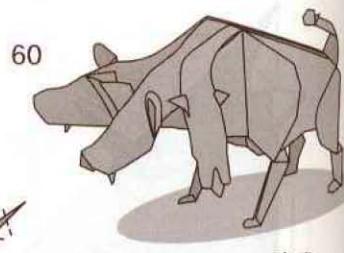
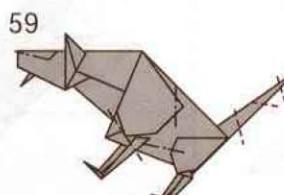
つまみ折り



中割折り



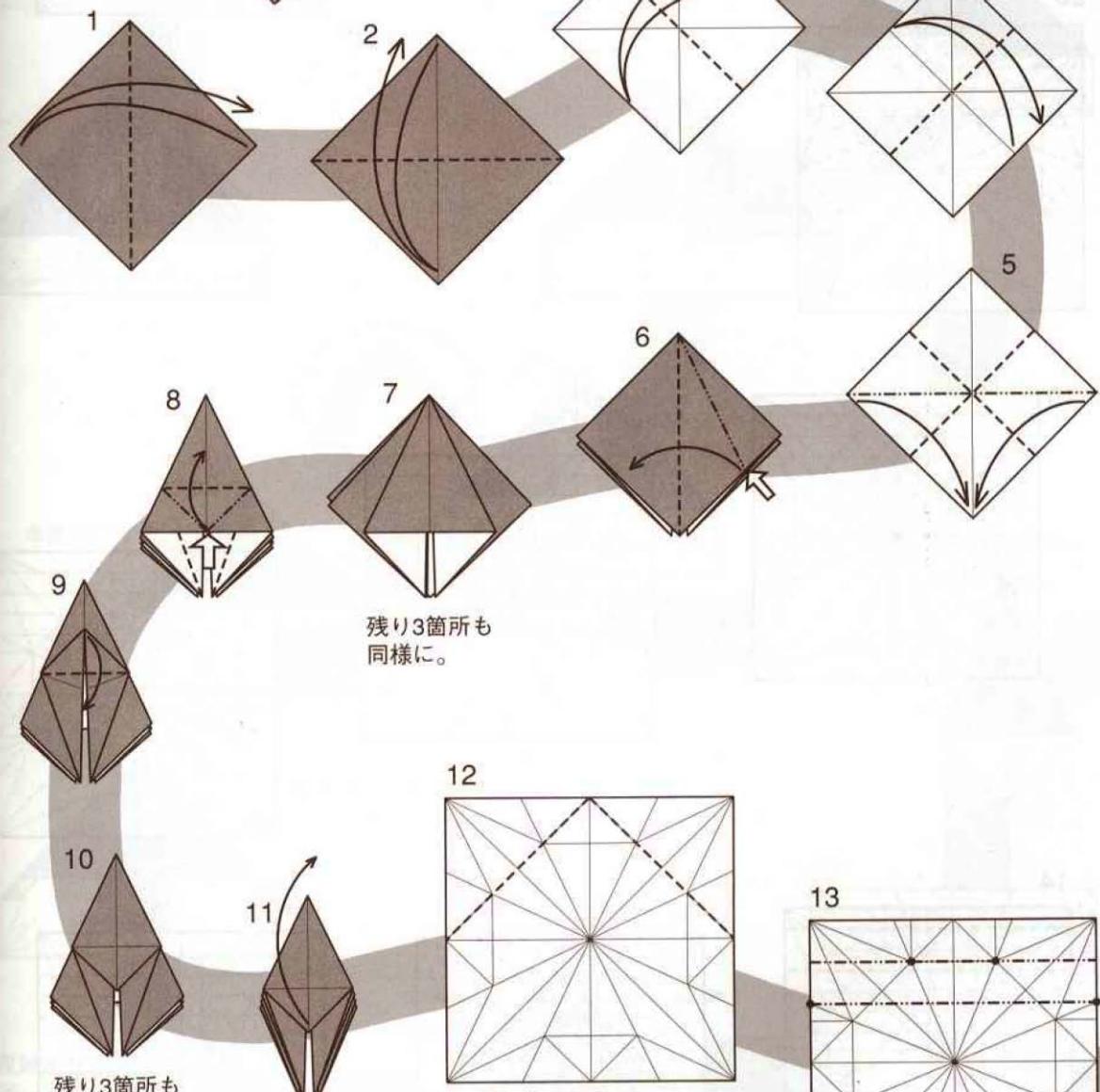
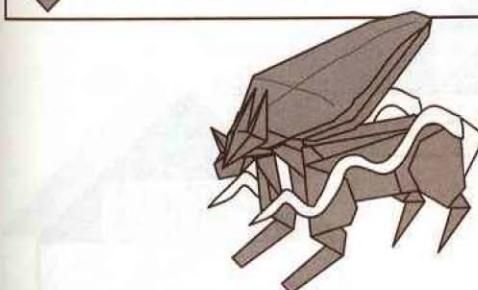
中割折り二回



完成

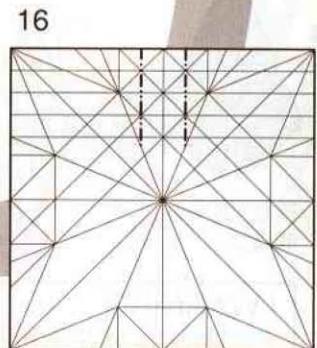
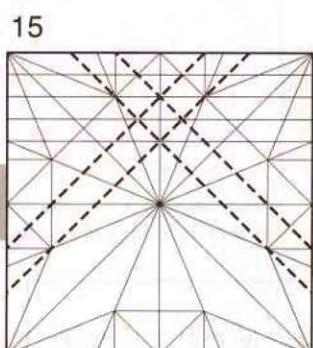
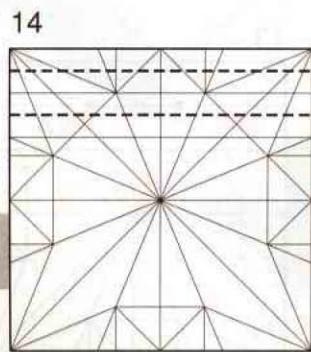
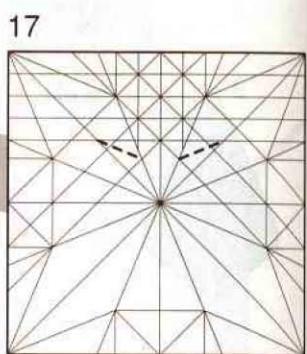
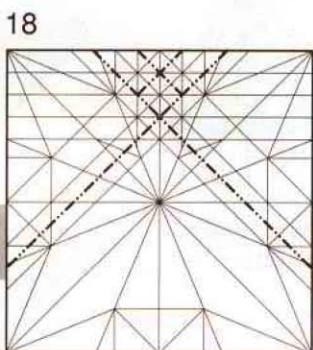
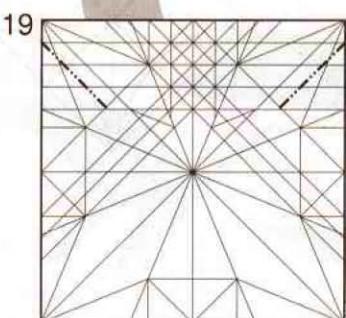
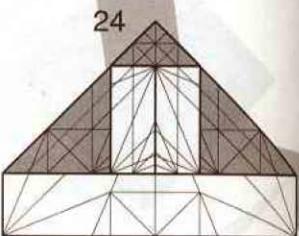
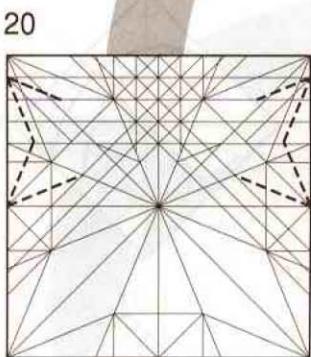
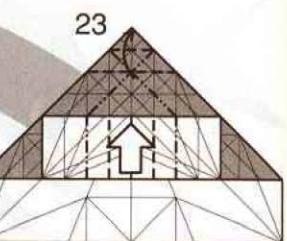
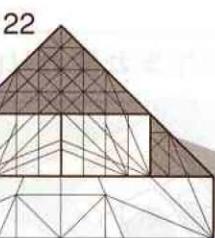
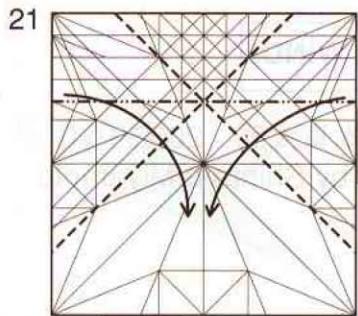
 GSC.No.245: 北風の生まれ変わり( THE NORTH WIND )

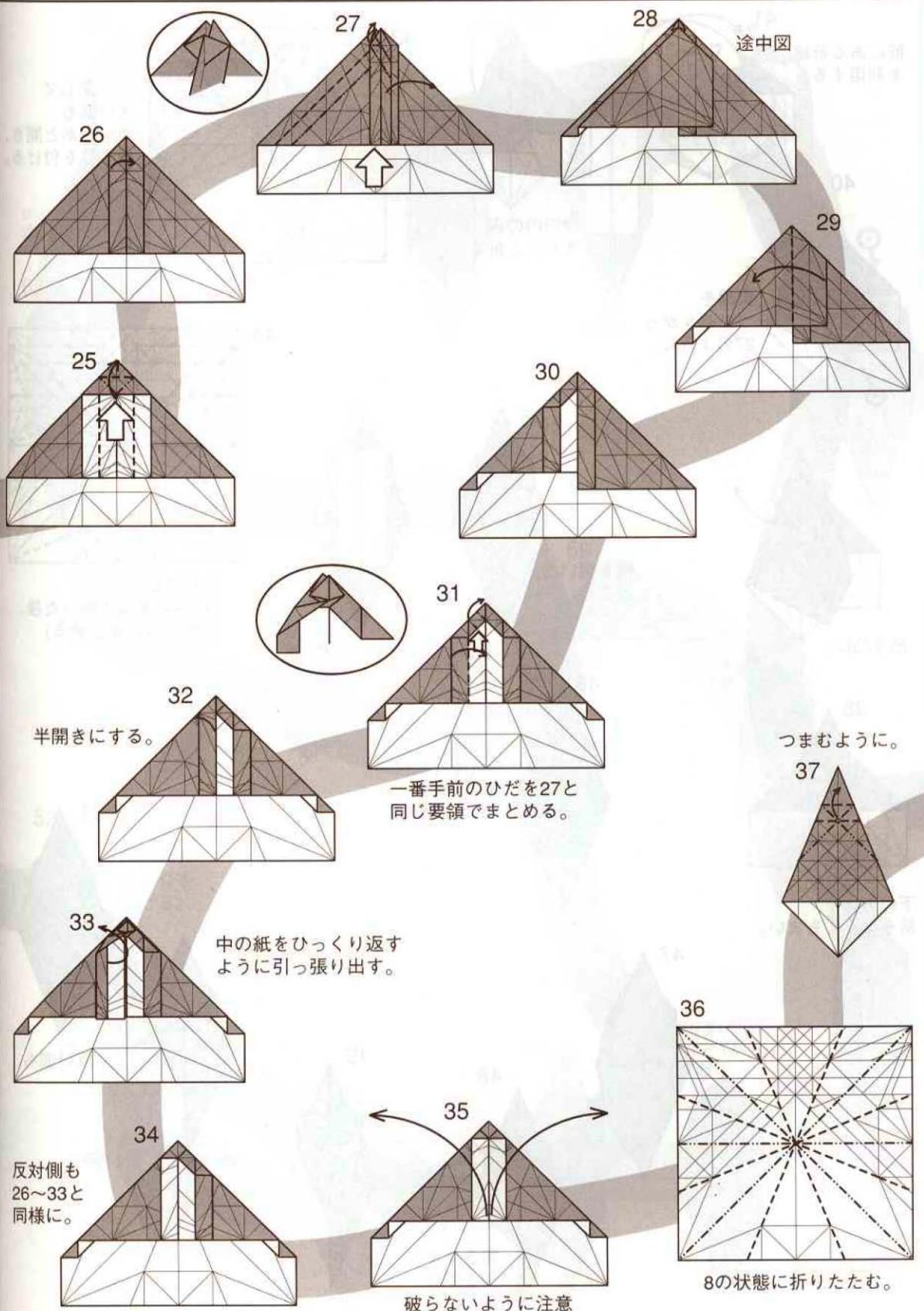
創作: 宮本真太郎 2002/10/6  
Designed by Shintaro Miyamoto



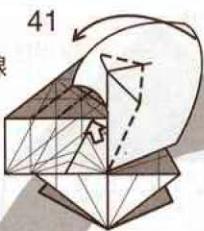
! WARNING

この折図は展開図折り的表現が使われています。

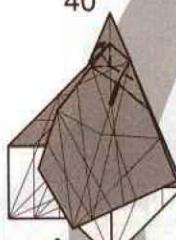




既にある折線  
を利用する。

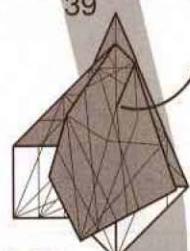


40



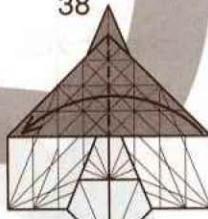
太線を  
つまみながら  
27のように。

39



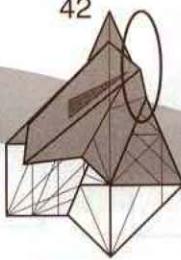
凹を凸に。

38



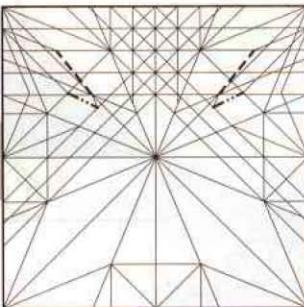
下の方は  
折らなくてもよい。

42



楕円内のみ  
きちんと折る。

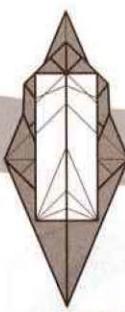
43



38に戻して  
反対側も  
やったあと開き、  
折すじを付ける。

横を開いた  
ところ

45



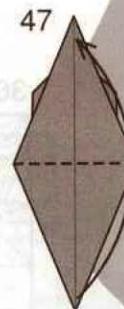
正面

46

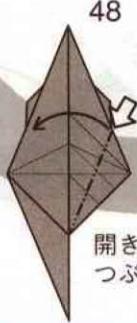


ひっくり  
返ってます。

47

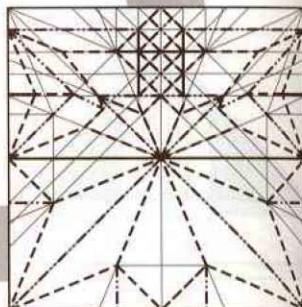


48



開きながら  
つぶす。

44



折り畳む。  
(38~42を両方やった後、  
28のようにまとめる)

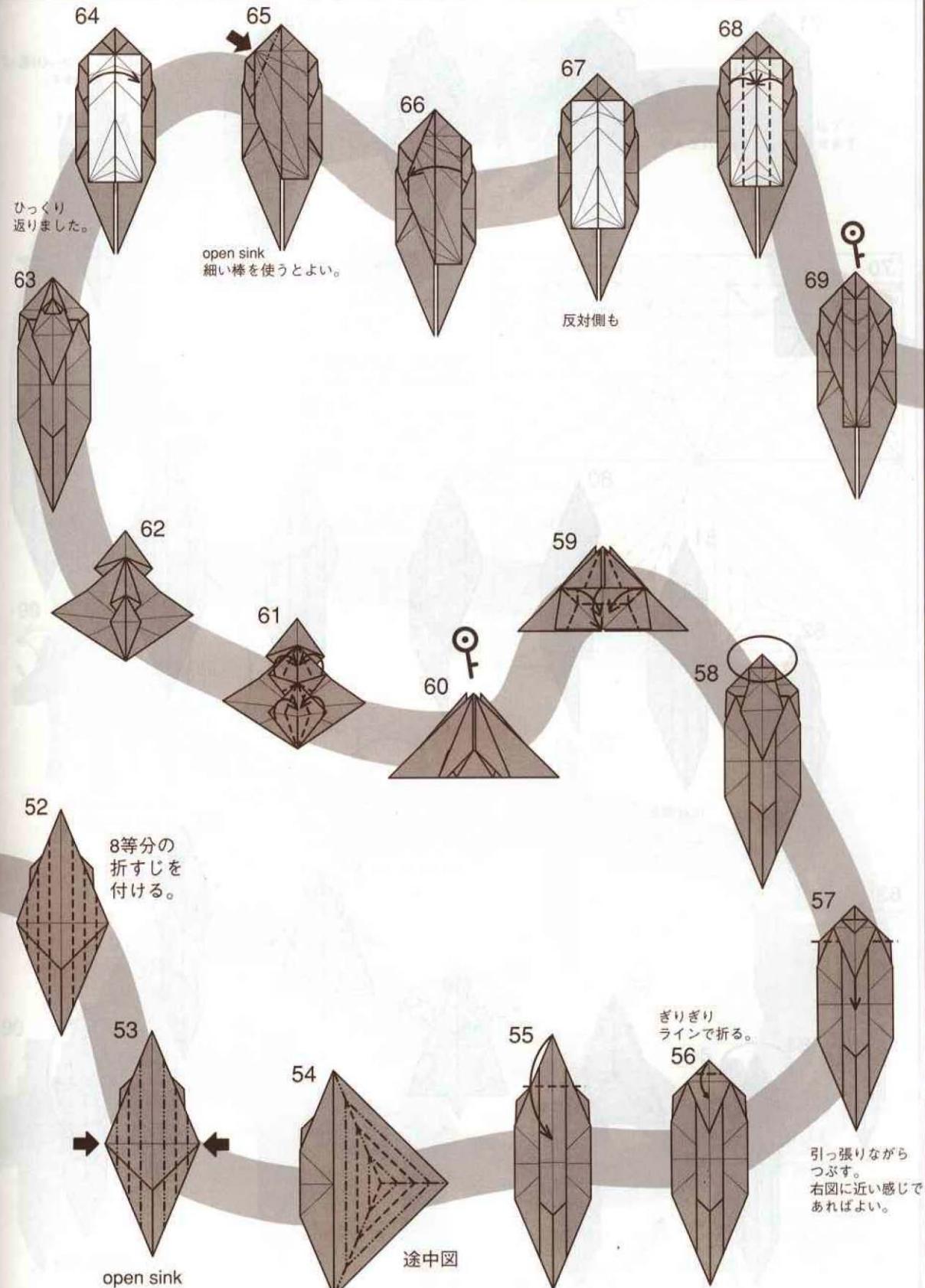
51

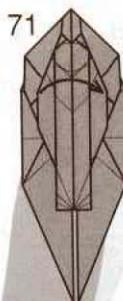


50



反対側も





70



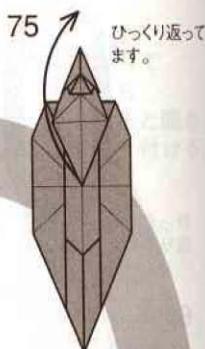
72



73



74



75

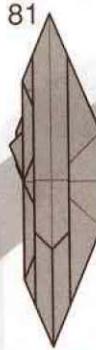
ひっくり返って  
ます。

反対側も。

76



82



81



80



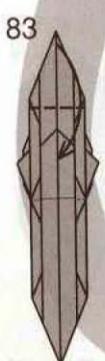
79



78

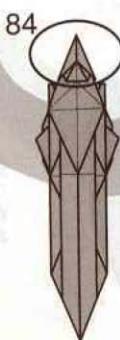


77

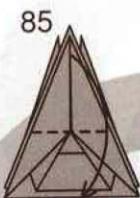


83

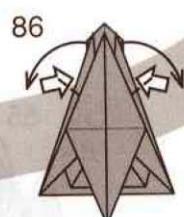
反対側も



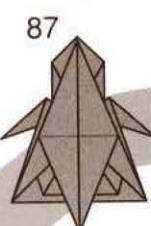
84



85



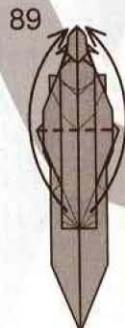
86



87



88



89

ひっくり返ってます。

102

101

103

完成。  
実際は絵よりかっこいいはず・・・。  
がんばれば前脚の指も出せます。

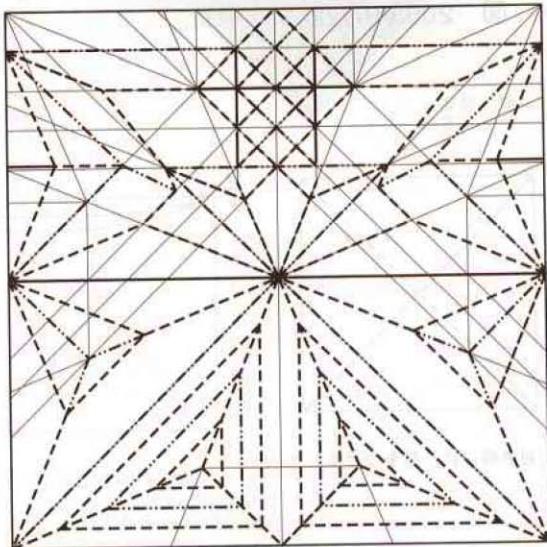
## 展開図

これを折ると55になります。

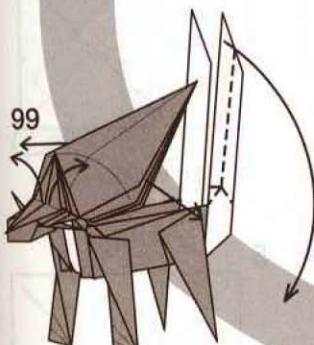
この作品は大きい紙でなくとも折れます。(私の最小記録は7.5cm)。

展開図からまとめる部分が実力不足のため表現できませんでした。申し訳ありません。(後半は特にめちゃくちゃ)

この図で折れたひとはかなりの実力派です。



100



たてがみのひだを  
引っ張って形作る。

98

97

96

反対側も

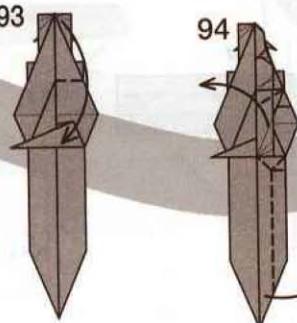
差し込むように  
折る。

91

中のひだを2つ引き出す。



93



94

↑

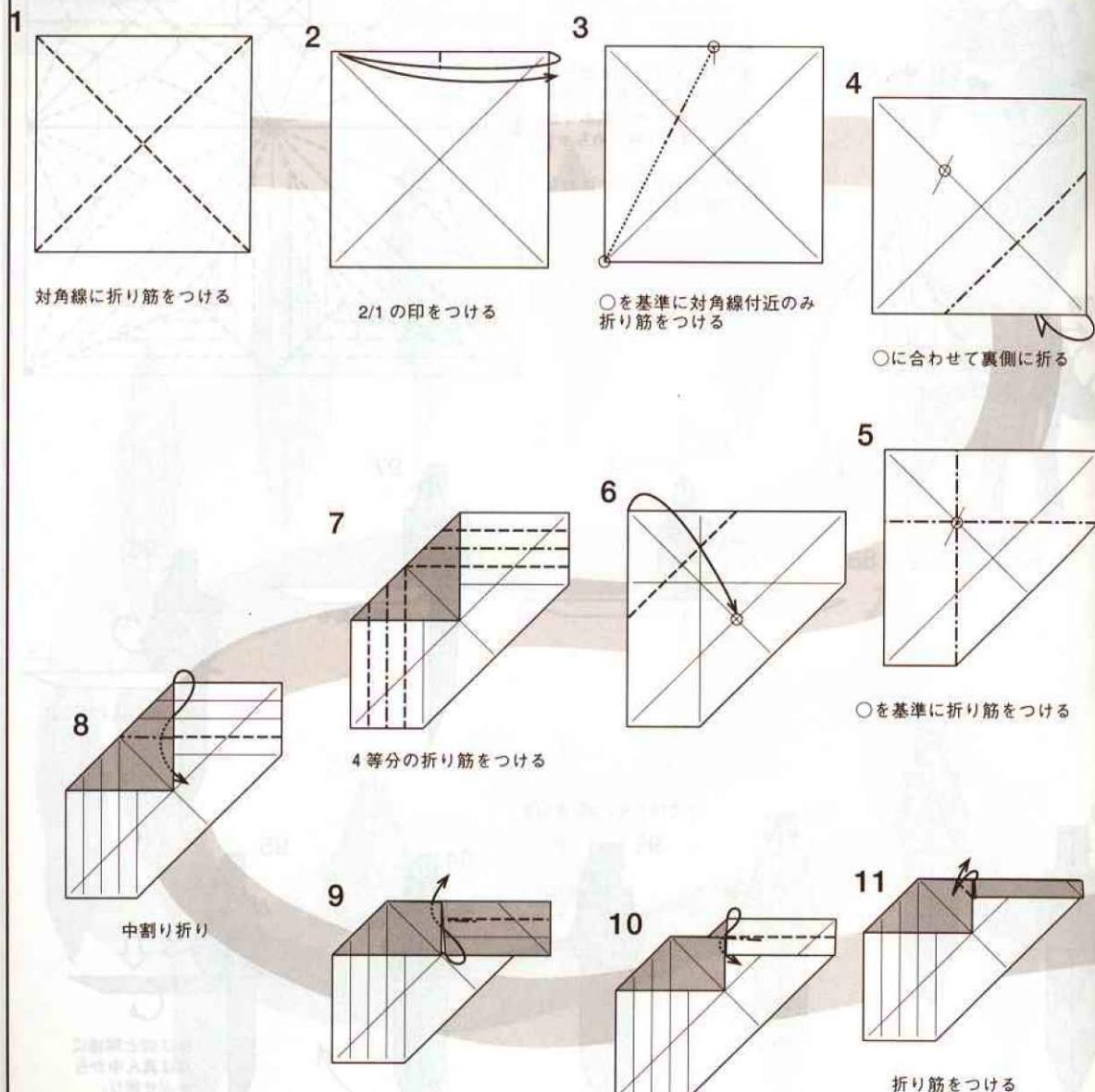
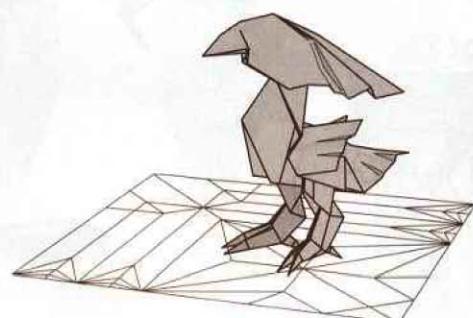
95

脚は92と同様に  
尾は真ん中から  
かぶせ折り。

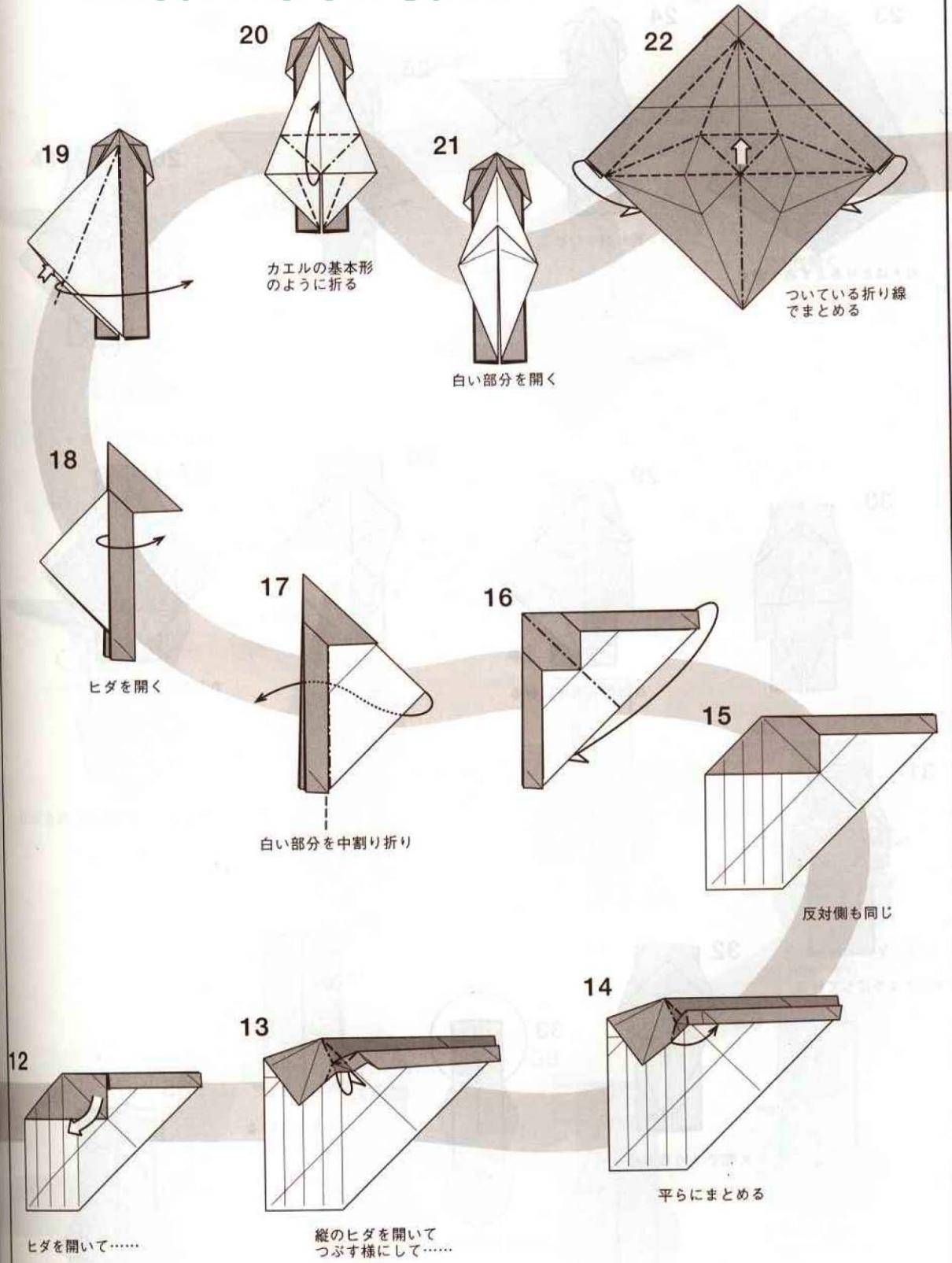
# 黄色い鳥

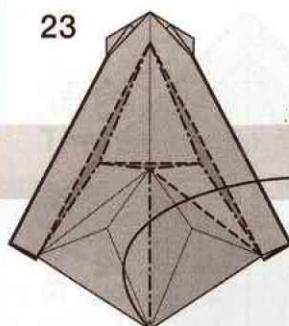
## The Yellow Bird

神谷哲史  
Satoshi Kamiya  
作 2001/12/09  
図 2003/07/22

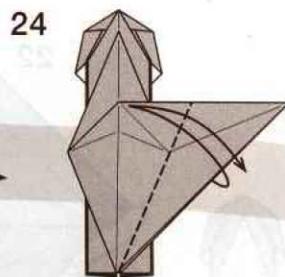


[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)

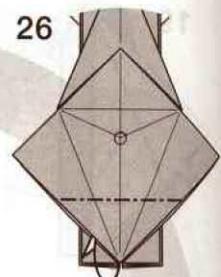
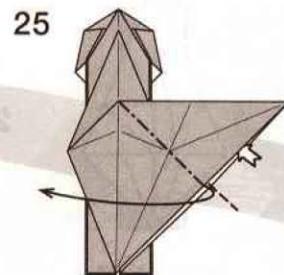




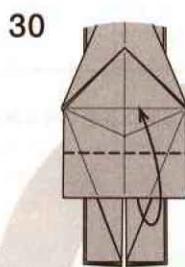
カドはとりあえず右へ倒す



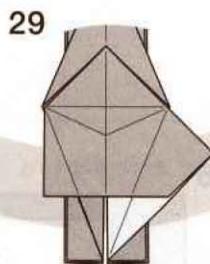
折り筋をつける



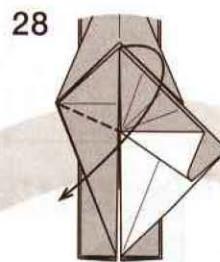
裏側に折り込む



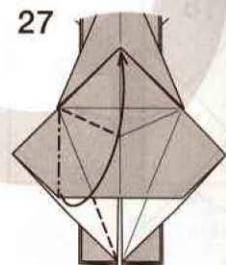
30



29



28

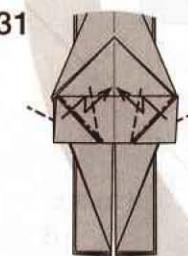


27

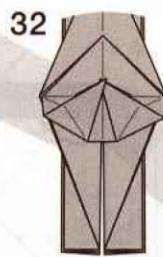
カドを引っ張り上げて……

反対側も同様に折る

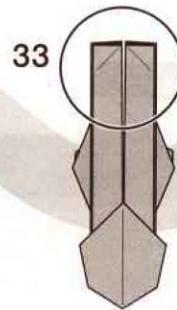
戻す。



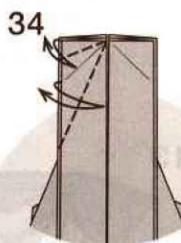
ずらすようにして折る



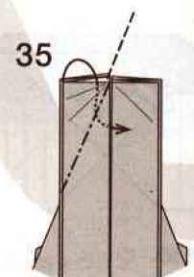
X軸で180度回転



上のほうを拡大

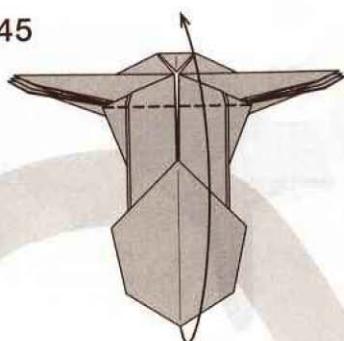


折り筋をつける

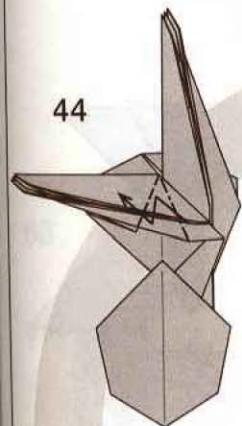


中割り折り

45

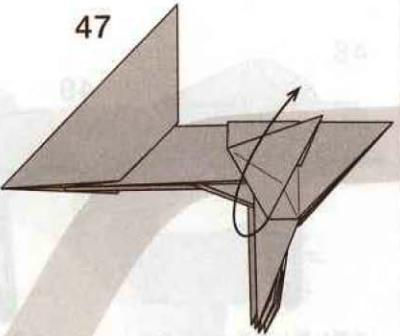


44



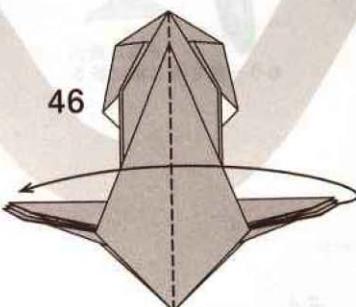
ついている線で  
段折りするように折りたたむ

47

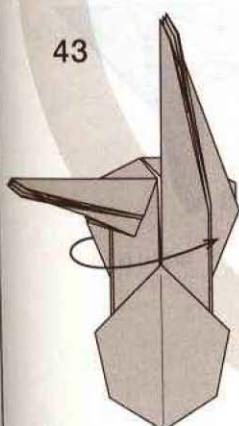


1枚開く

46

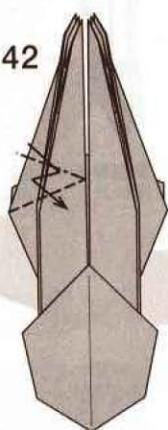


43



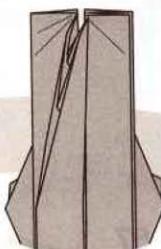
ヒダ3枚を反対側へ引き出す

42



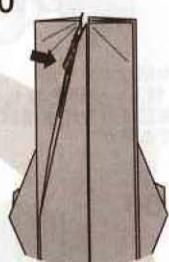
段折り

41



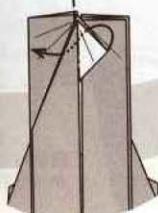
他の3ヶ所も  
34-40と同様に折る

40



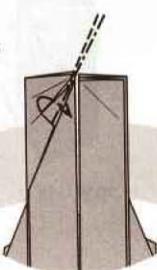
先の部分もしすめ折り  
(opensink)

36



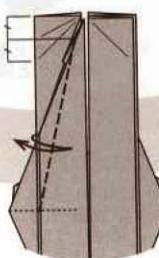
中割り折り

37



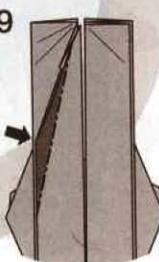
中割り折り

38

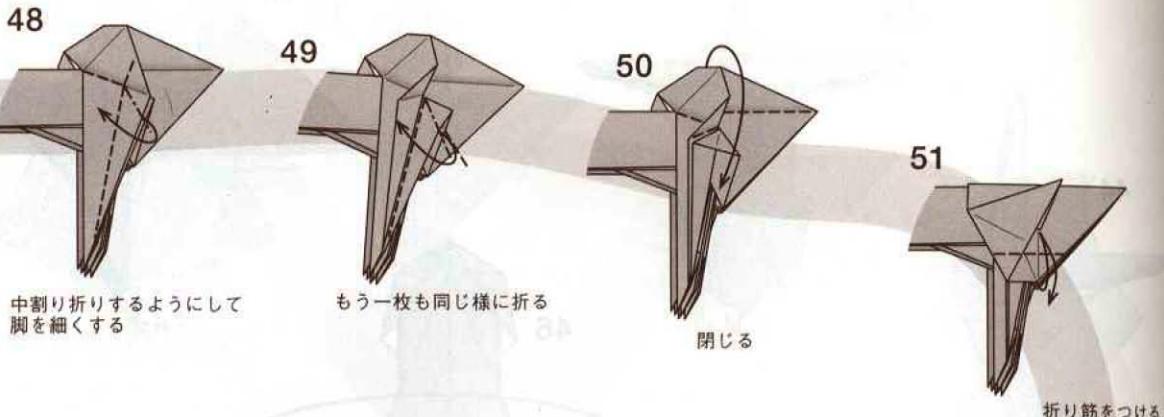


折り筋をつける

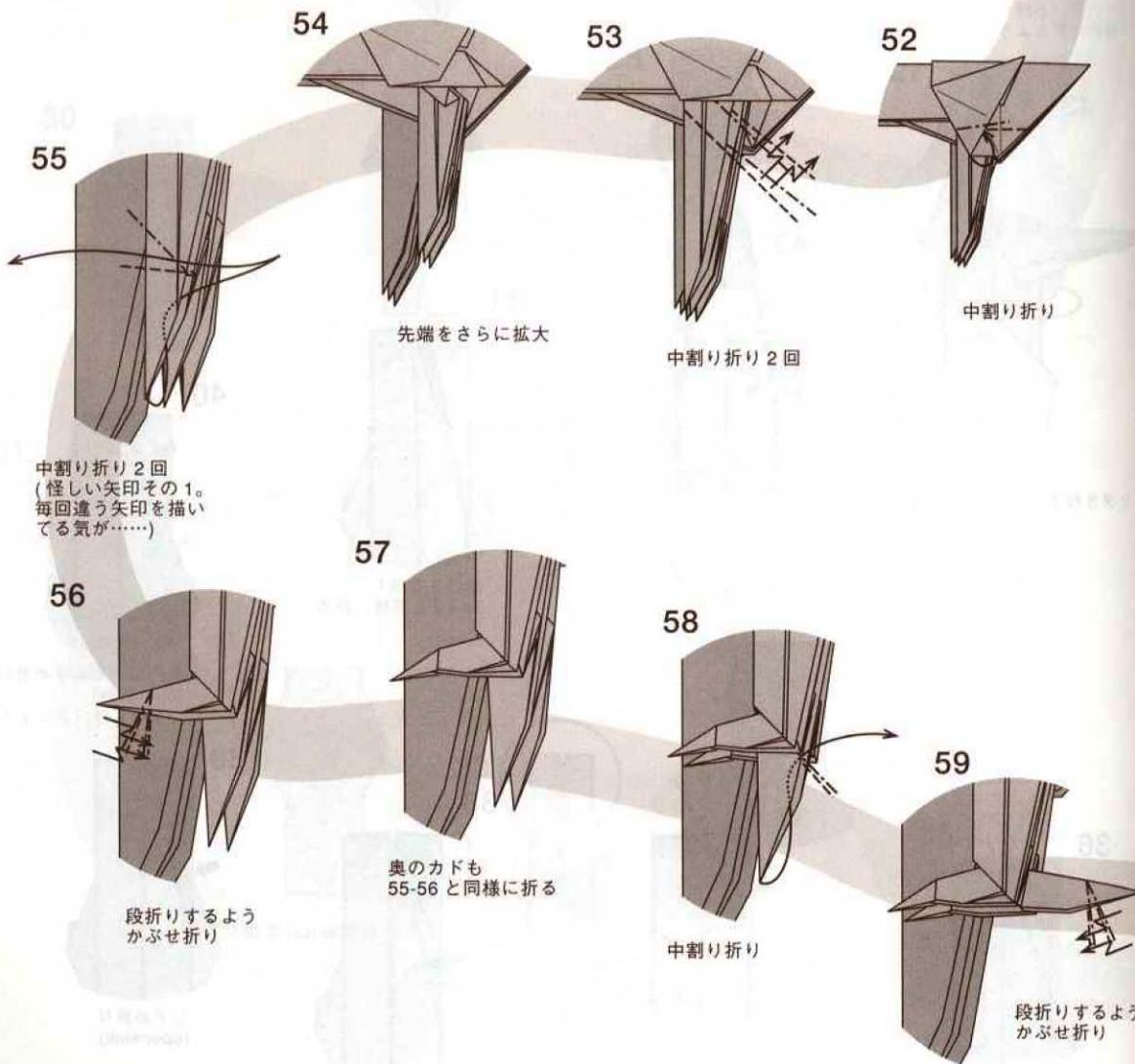
39



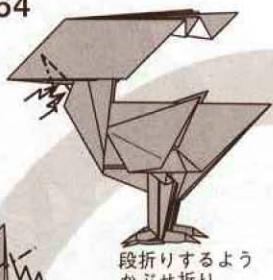
しすめ折り  
(opensink)



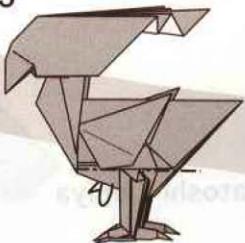
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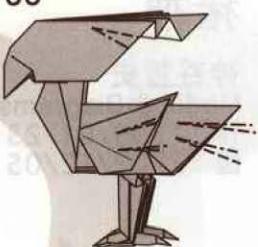
64



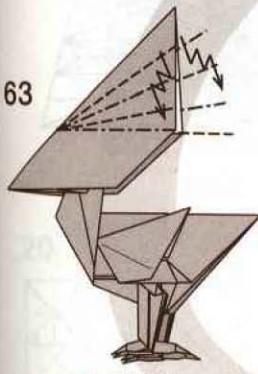
65



66



63



11.25 度で段折り

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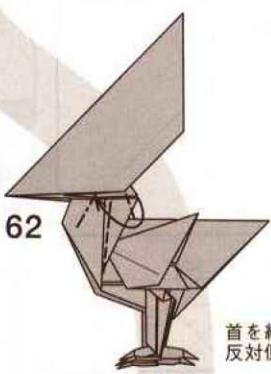
各部にヒダを入れる

67

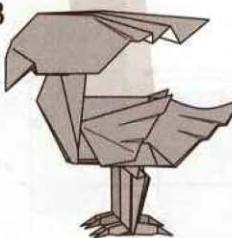


尾の形を整える

62

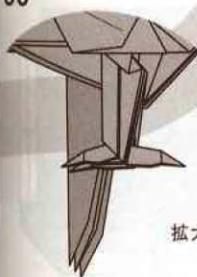
首を細く折る  
反対側も同じ

68



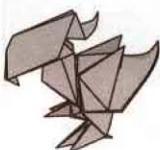
完成

60

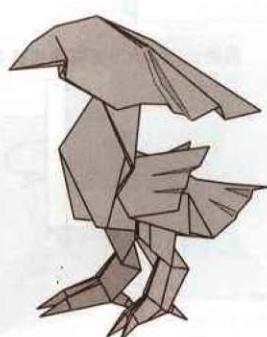


拡大終了

かぶせ折り 2 回  
(怪しい矢印その 2。  
かぶせ折りの矢印をつな  
げただけ。個人的にこん  
な感じの動きをすると思  
うのですが如何?)



有名 RPG より。  
元の題材は 2D の頃のアイコン状の  
物で(左図)、この作品はそれをさら  
に折り込んだものです。



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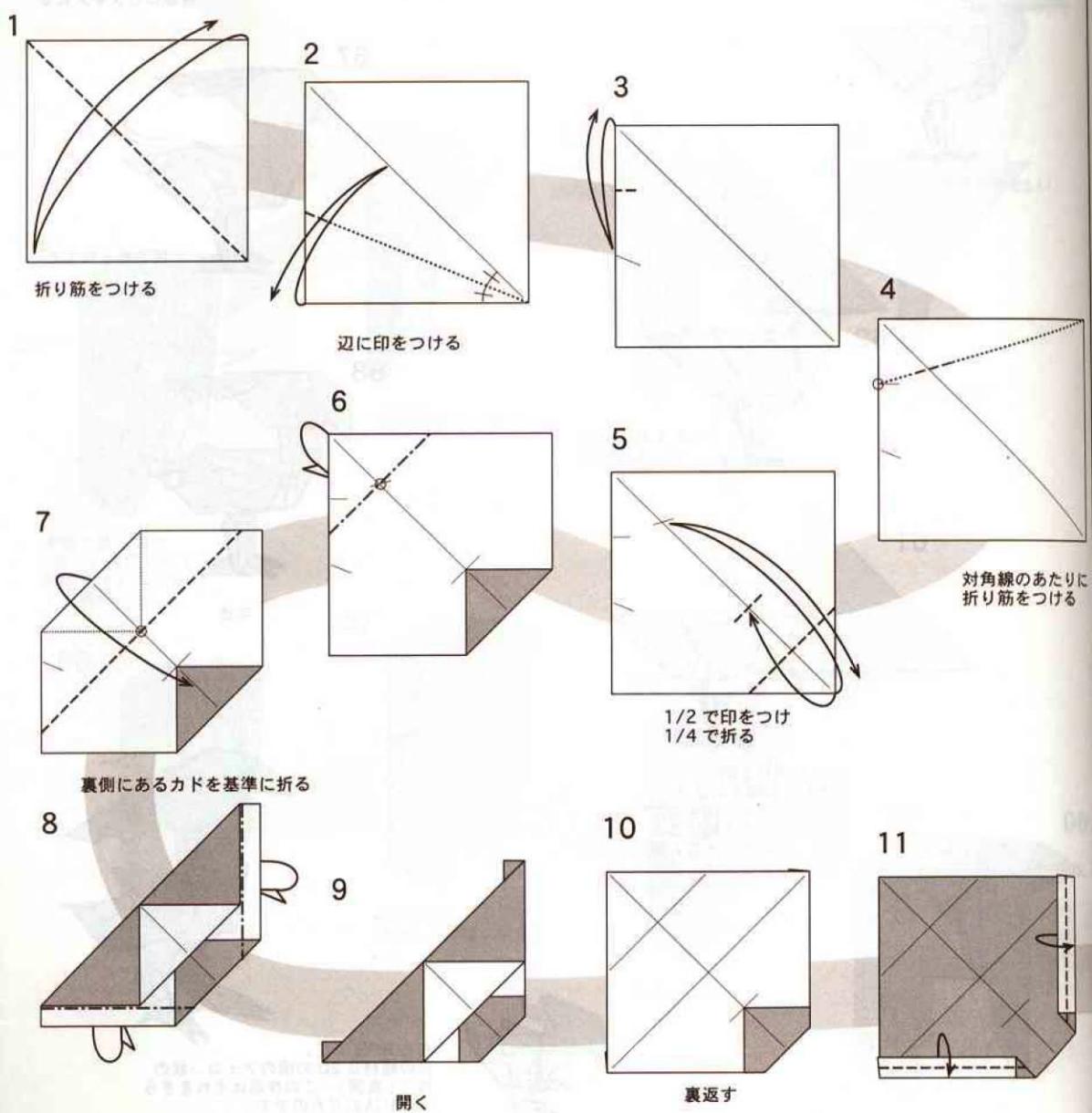
# 猪神

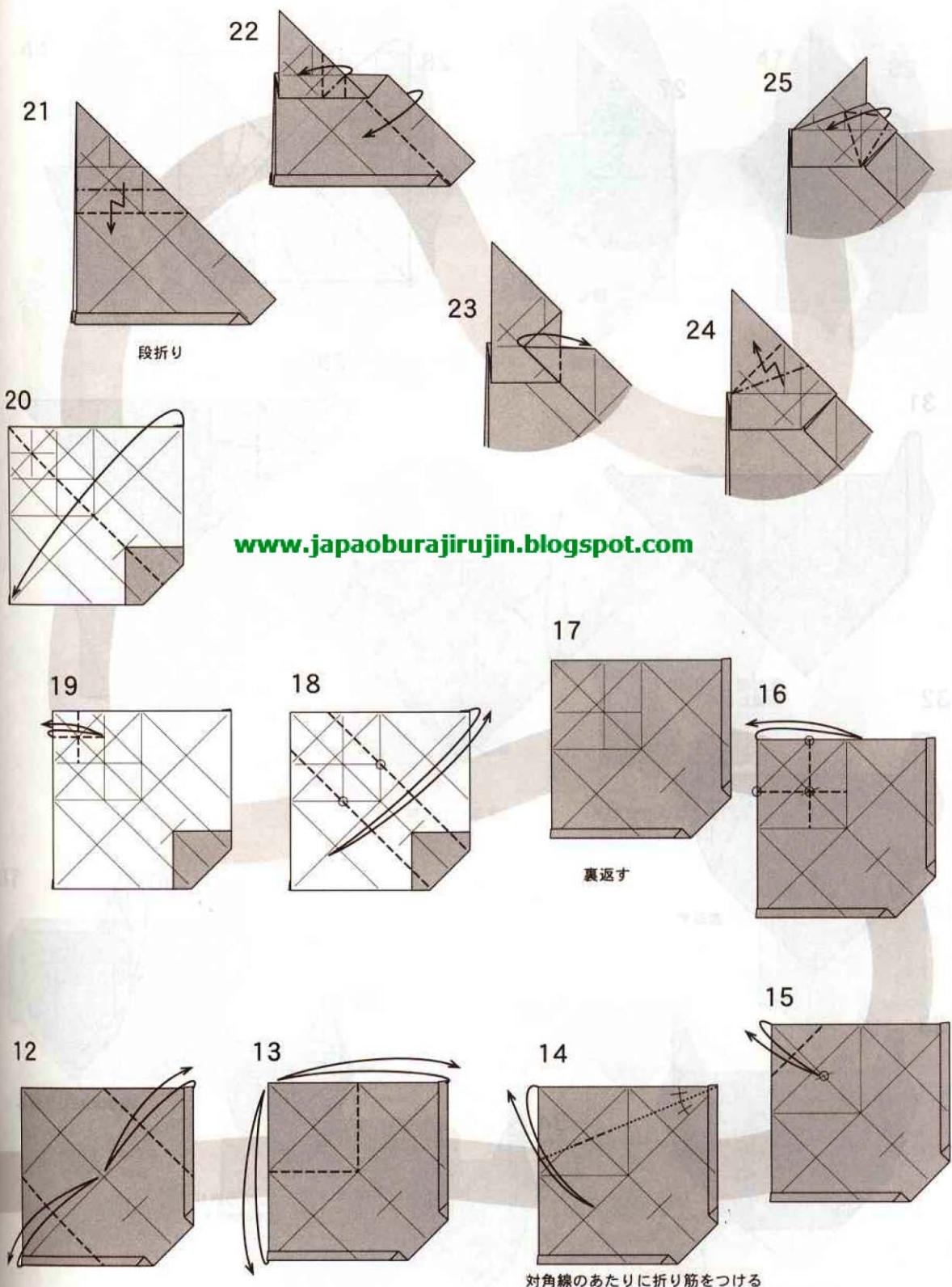
神谷哲史

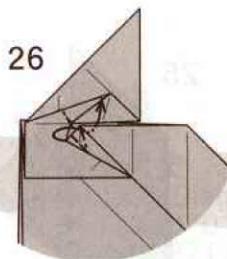
Model & Diagrams by Satoshi Kamiya

作 1999/01/23

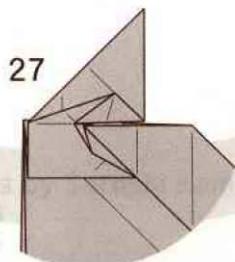
図 2002/12/05



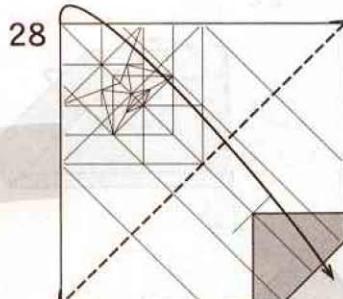




26



27



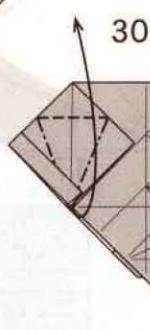
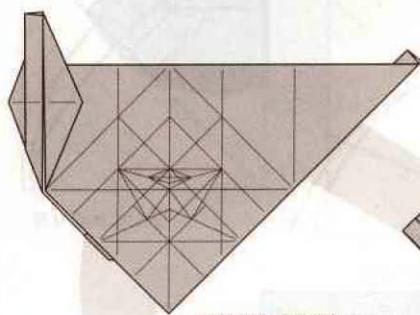
28

開く

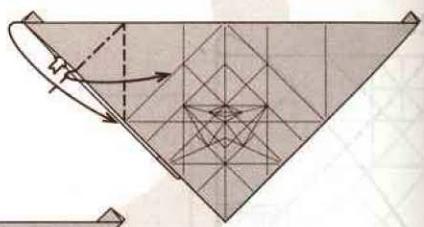
[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)

29

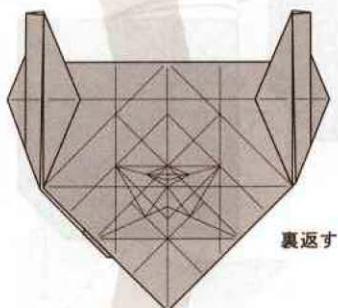
31



30

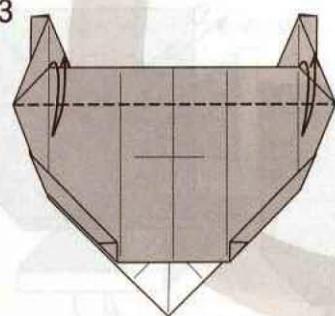


32



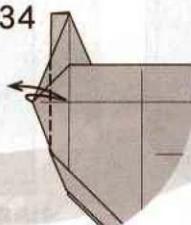
裏返す

33



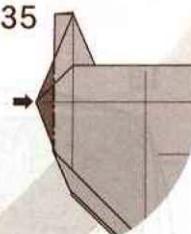
折り筋をつける

34



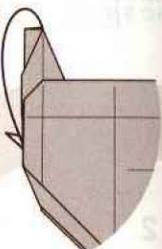
折り筋をつける

35

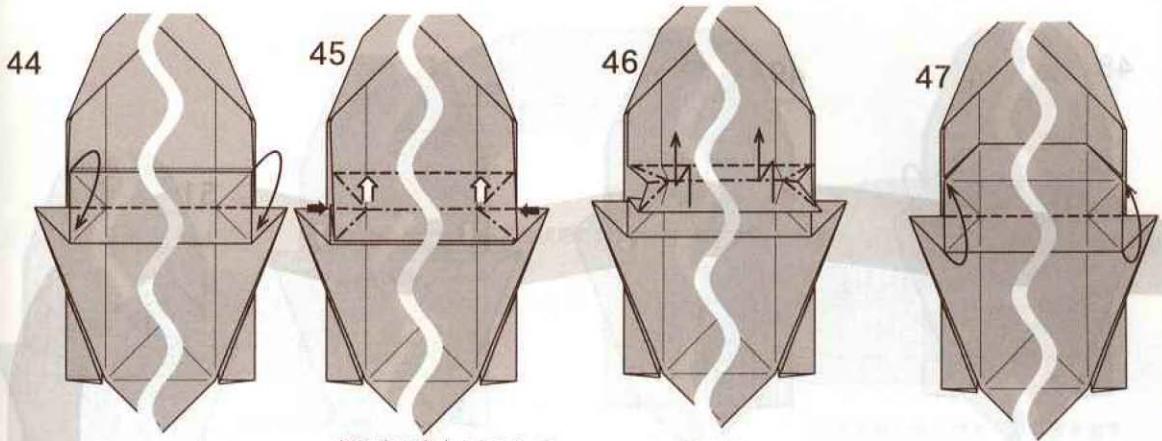


しづめ折り  
opensink

36

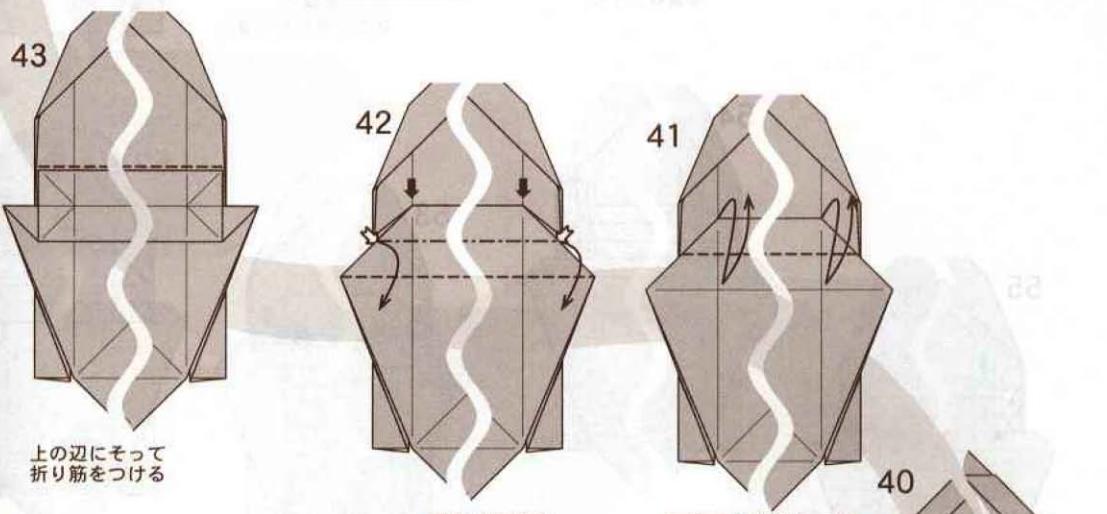


裏側に折り下げる



紙を突き出すようにして  
段折り状に折り重む

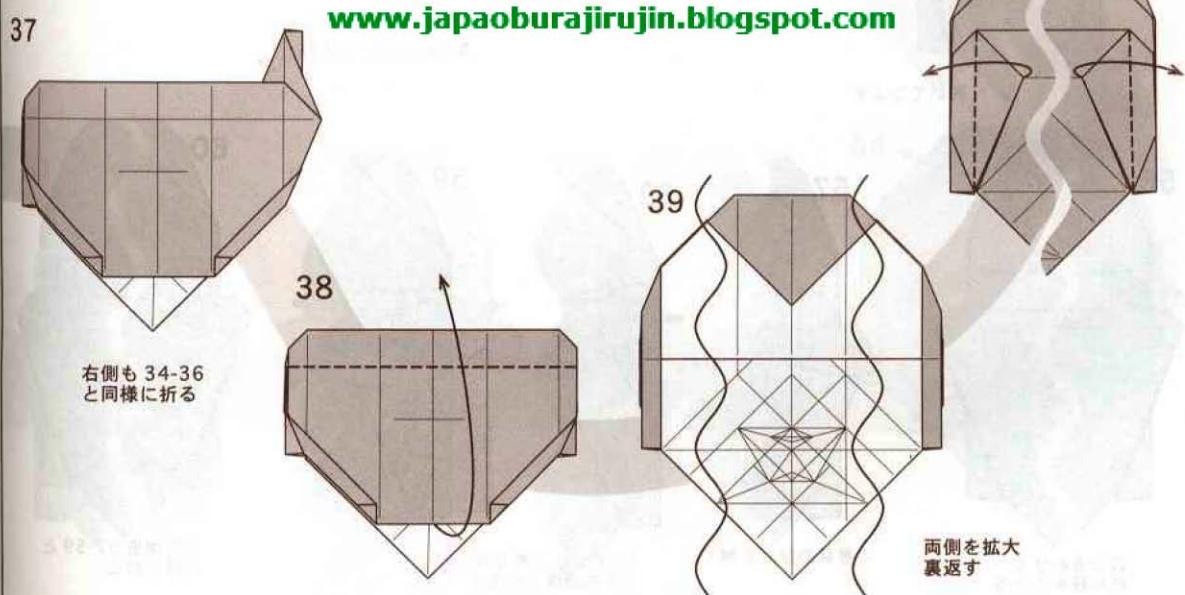
途中図



上の辺にそって  
折り筋をつける

開いてつぶす

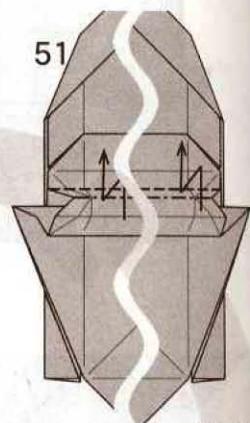
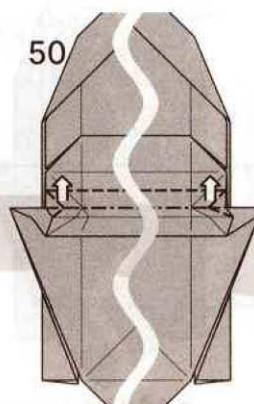
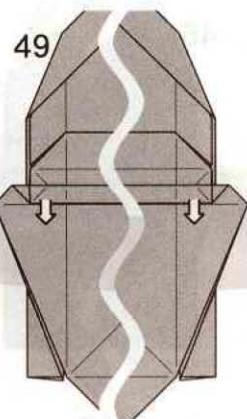
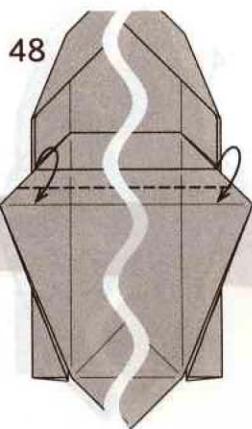
1/2で折り筋をつける



右側も 34-36  
と同様に折る

両側を拡大  
裏返す

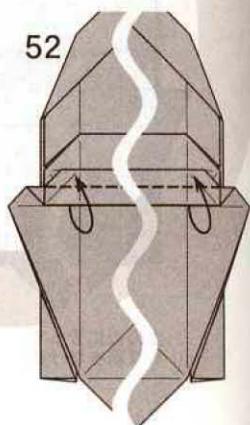
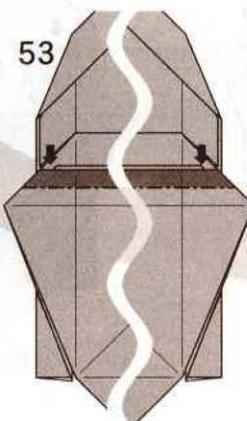
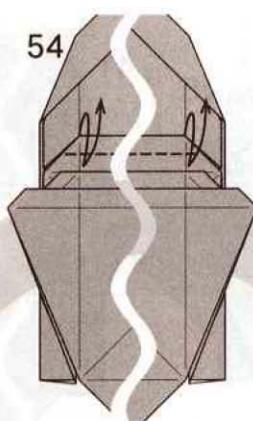
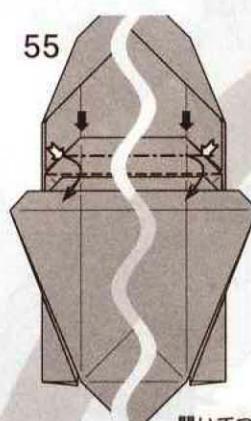
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半開状にする

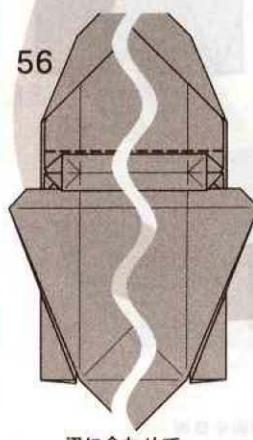
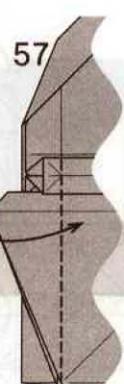
45と同様に  
段折り状に折り重む

途中図

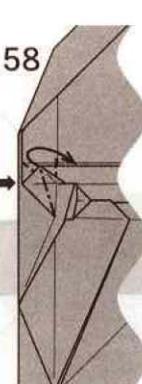
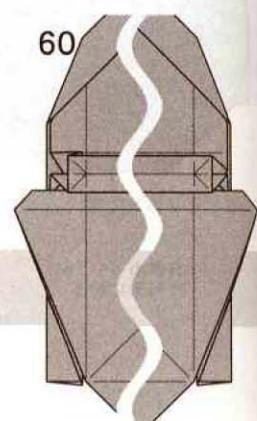


濃い部分を押し込む

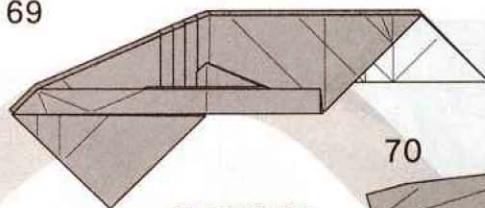
開いてつぶす

辺に合わせて  
折り筋をつける

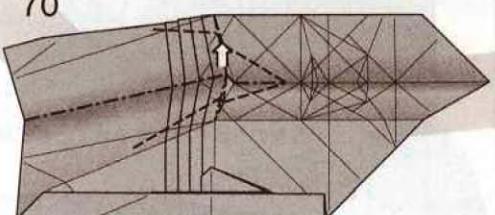
2番目のひだを開く

56でつけた折り筋と  
カドを基準につぶす反対側も57-59と  
同様に折る

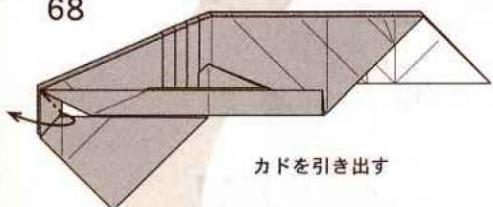
69



70

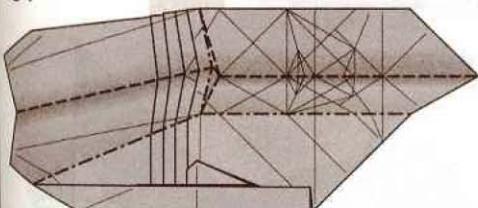


68



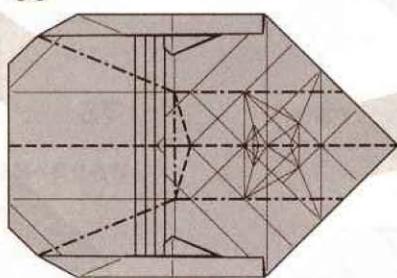
カドを引き出す

67



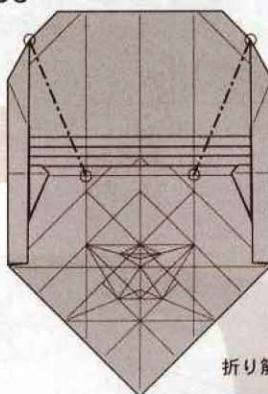
途中図

66



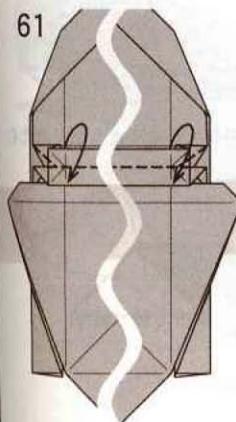
ついている折り筋で一気に折り畳む

65

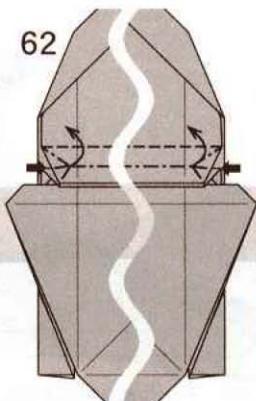


折り筋をつける

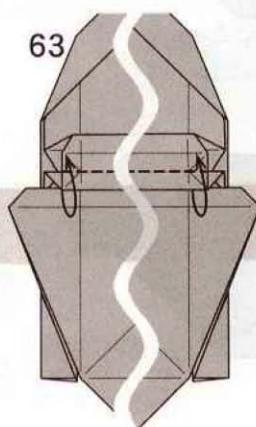
61



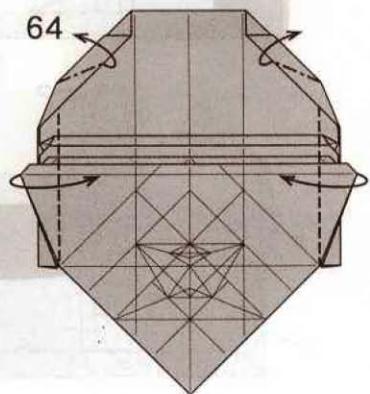
62



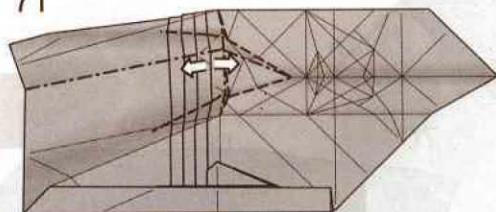
63



64

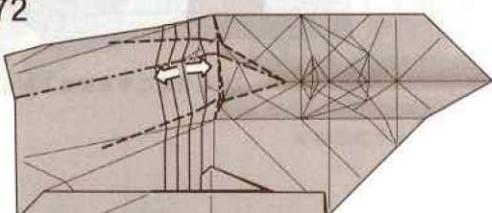
ついている折り目を使用し  
45、50と同様に  
段折り状に折り畳む

71



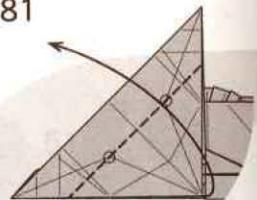
ひだを少し引き出す  
左側の谷折り線をずらして上手く吸収する

72

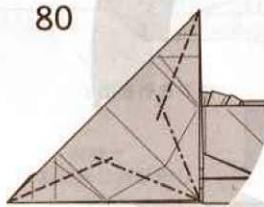


まだ

81

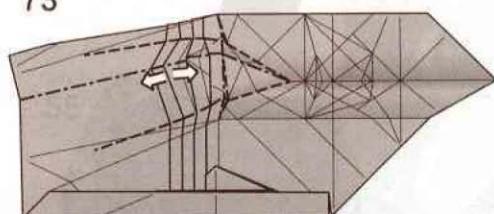


80



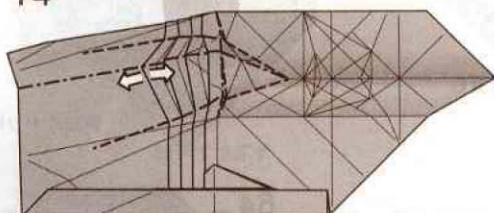
折り筋をつける

73



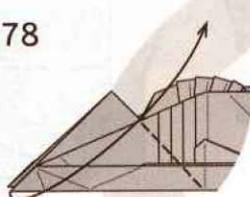
まだ

74

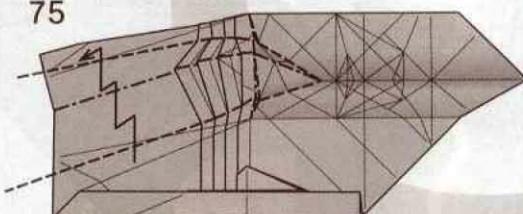


もう一つ

78

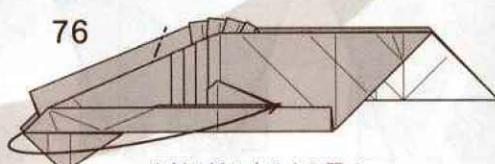


75



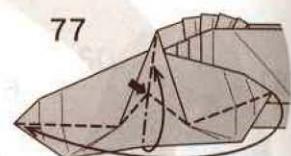
全体を折り畳む  
中央と左右の山が  
だいたい平行になるよう調整する

76



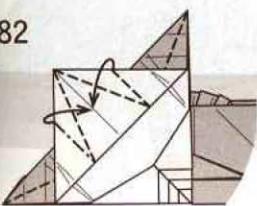
中割り折りするよう開く

77

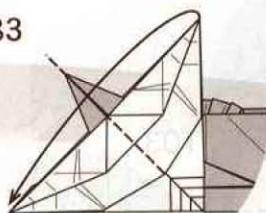


中割り折りするよう折りたたむ

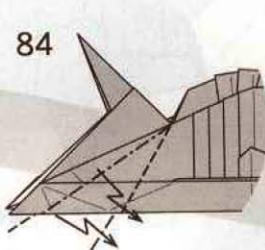
82



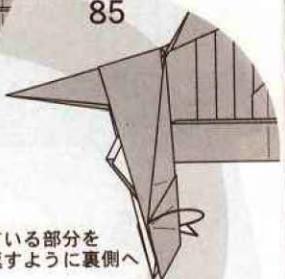
83



84



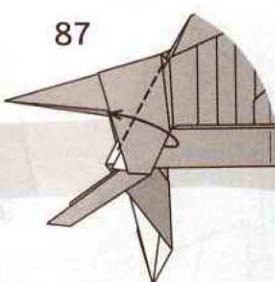
85



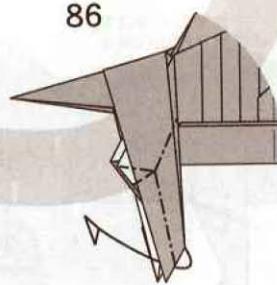
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かぶさっている部分を  
ひっくり返すように裏側へ

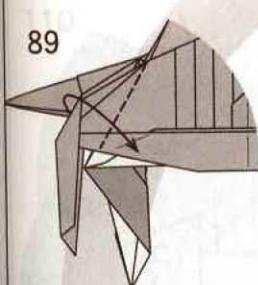
87



86



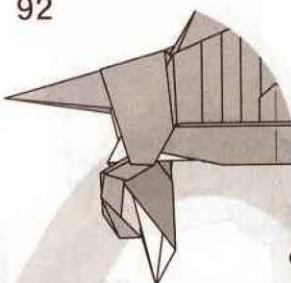
89



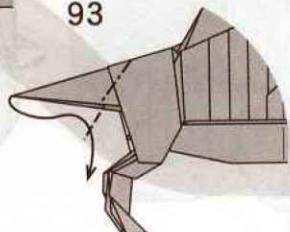
裏側へ折り込む

戻す

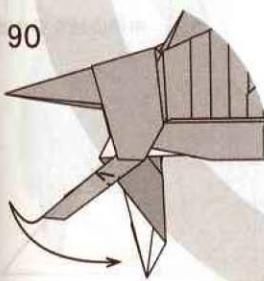
92



93

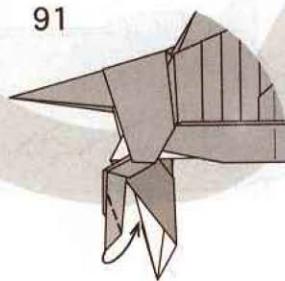


90



中割り折り 2 回

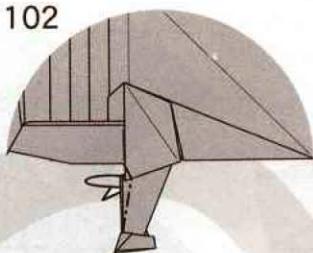
91



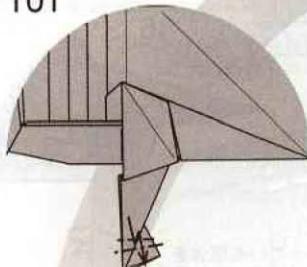
反対側も 85-91 と  
同様に折る

中割り折り

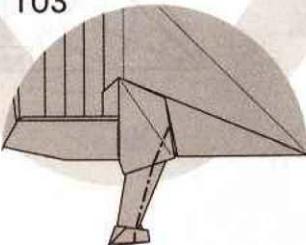
102



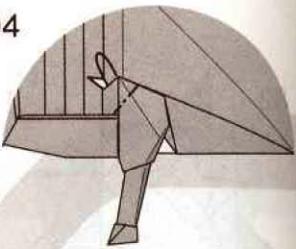
101



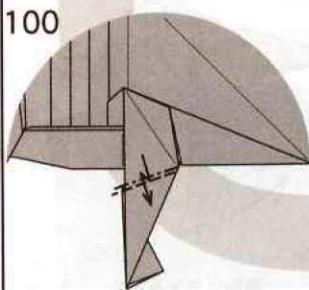
103



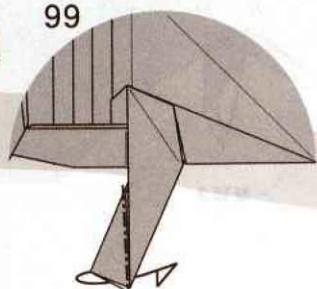
104



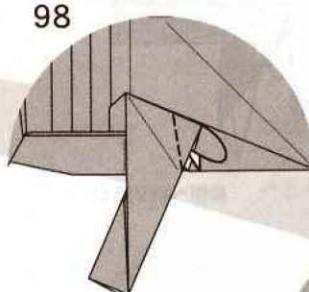
100



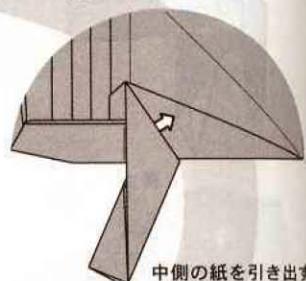
99



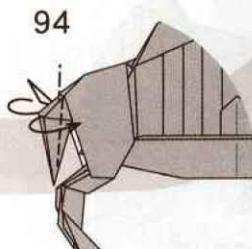
98



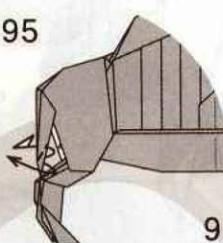
97



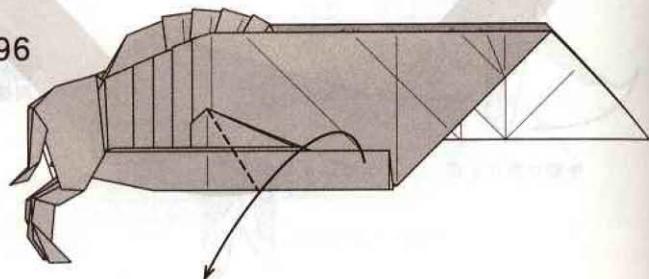
94



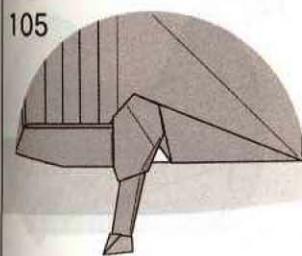
95



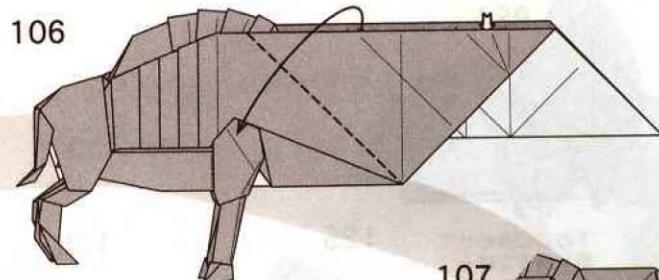
96



かぶせ折り



105

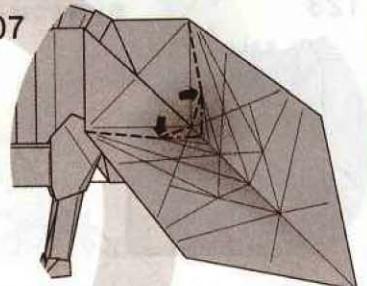


106

反対側も 96-104 と同様に折る

831

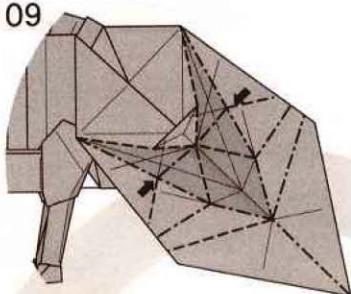
107



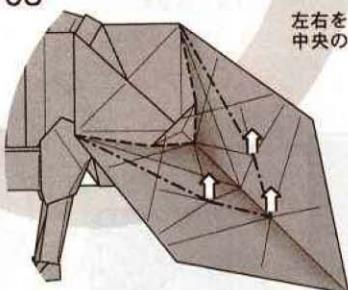
大きく開く

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109

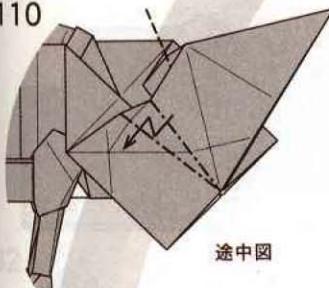


108

左右をへこませ  
中央の山折り線をしっかり折る

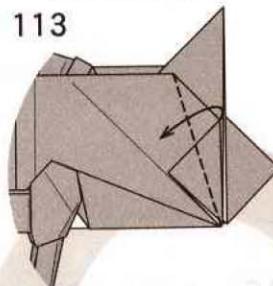
そのままついている線で折りたたむ

110

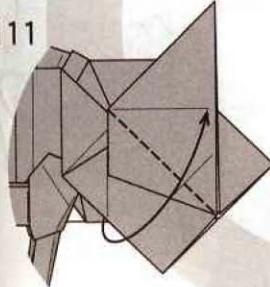


途中図

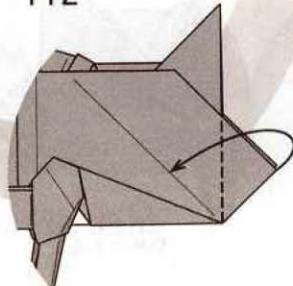
113



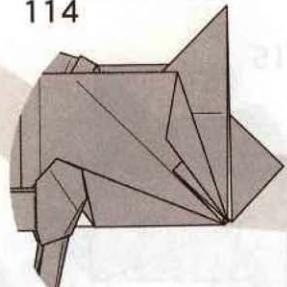
111



112

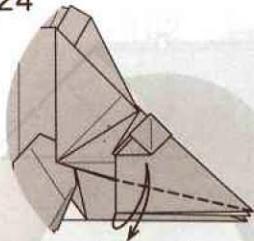


114

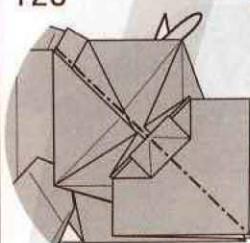


開く

124

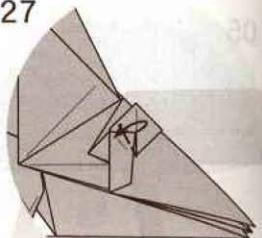


123



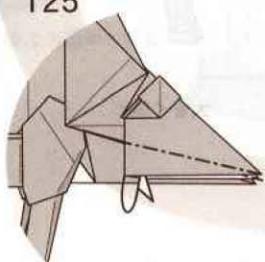
下の辺に合わせて  
折り筋をつける

127

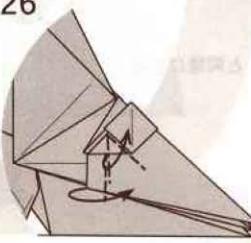


目を折る

125

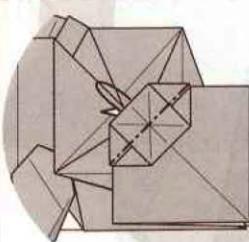


126

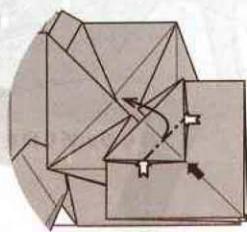


中割り折り

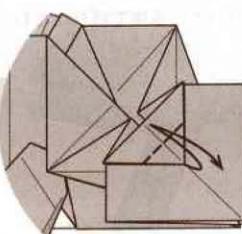
122



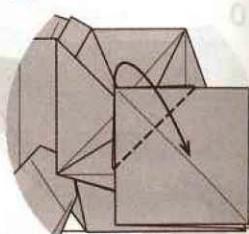
121



120

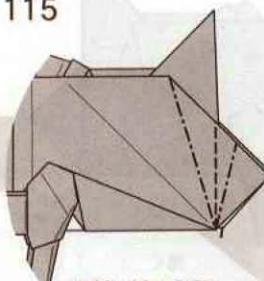


119



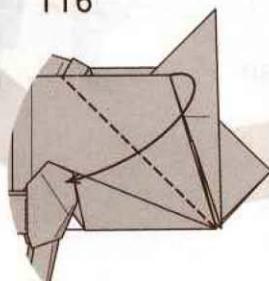
カドを開いてつぶす

115

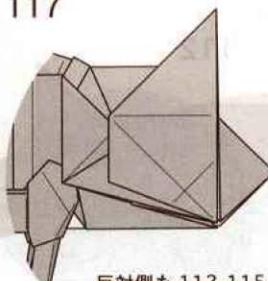


中割り折り 3 回

116

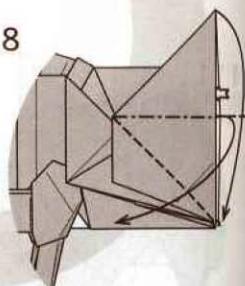


117

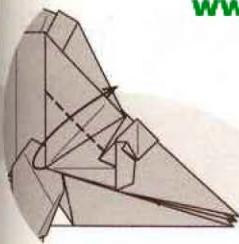


反対側も 112-115 と  
同様に折る

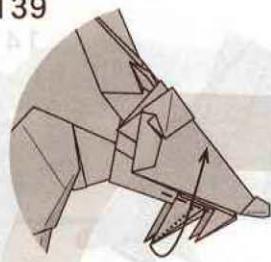
118



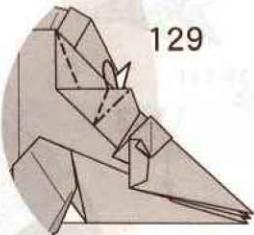
128

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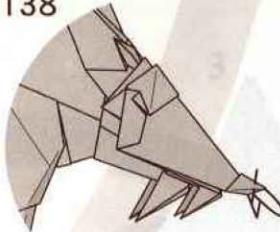
139



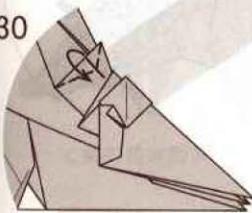
129



138

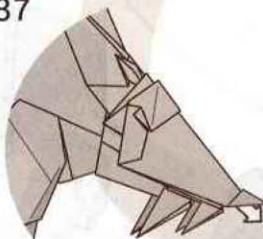
カドを折り上げる  
耳をつまむ形の角を  
つくるために

130

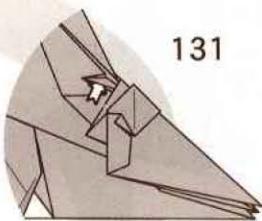


耳をつまむように折る

137

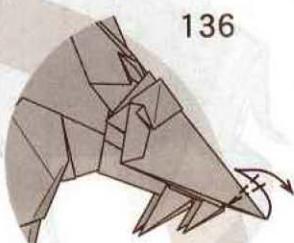


131



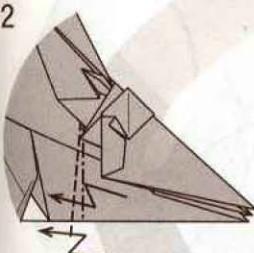
中側の紙を引き出す

136

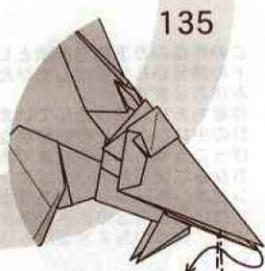


かぶせ折り2回

132

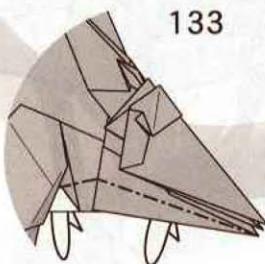
耳を開く  
反対側も128-131と同様に折る

135



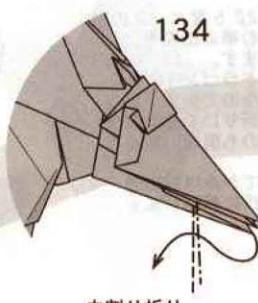
中割り折り

133

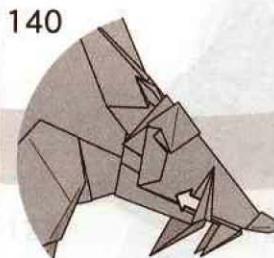


中側へ折り込む

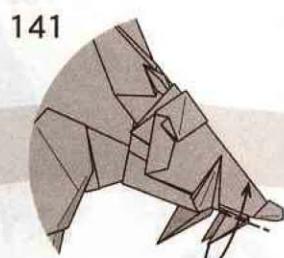
134



中割り折り

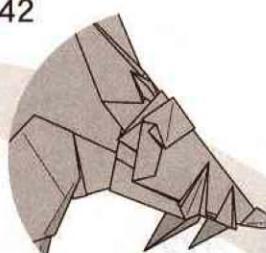


140



141

142



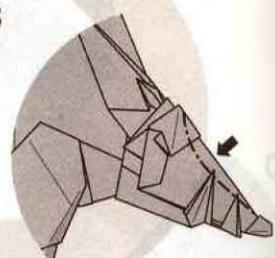
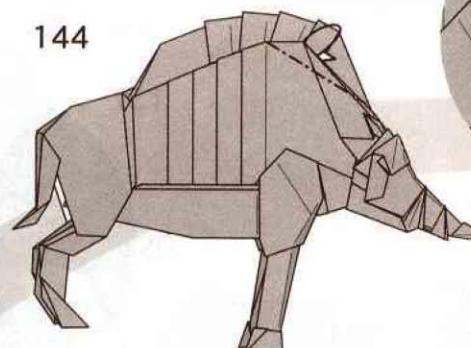
中側の紙を引き出す

反対側も 139-141  
と同様に折る

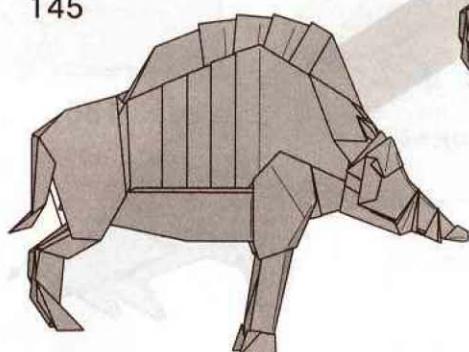
143

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144



145



完成

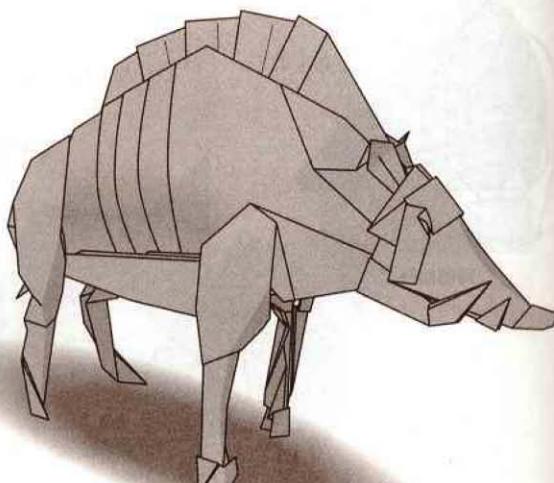
この作品の目玉的な技法として、鶴の基本形の小さい力  
ドの部分から折り出したひだで表現した肋骨からたてが  
みがあります。

作者もあまり使用はしていませんが、22.5度ベースの設  
計の中にひだを比較的無理なく組み込む事の出来る、

けっこう強力な表現技法であると思います。

ちなみに使用例としてはエンシェントドラゴン TV チャ  
ンピオンバージョンがあります。腹部なのであまり目立  
たない上に折るのに手間がかかる上に折りにくくなりま  
すが、興味のある方は組み込んでみるのも面白いかと思  
います。

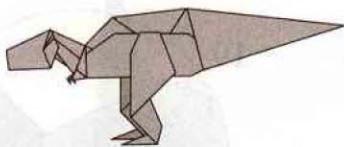
なお肋骨部は北條高史氏のトラを、たてがみは故吉野一  
生氏の技法をヒントになりました。両氏に感謝します。



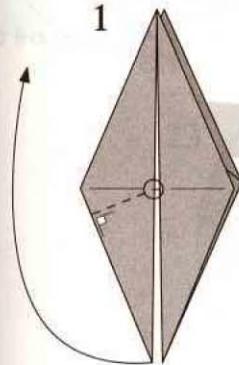
# ティラノサウルス

*TYRANNOSAURUS*

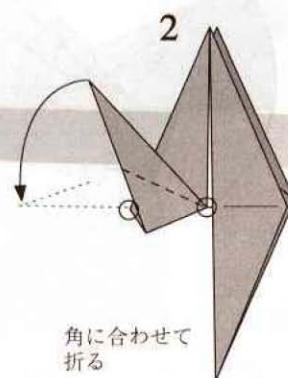
創作・作図：木村哲夫  
(2003.02)



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<鶴の基本型>



角に合わせて  
折る

角に合わせて  
折る

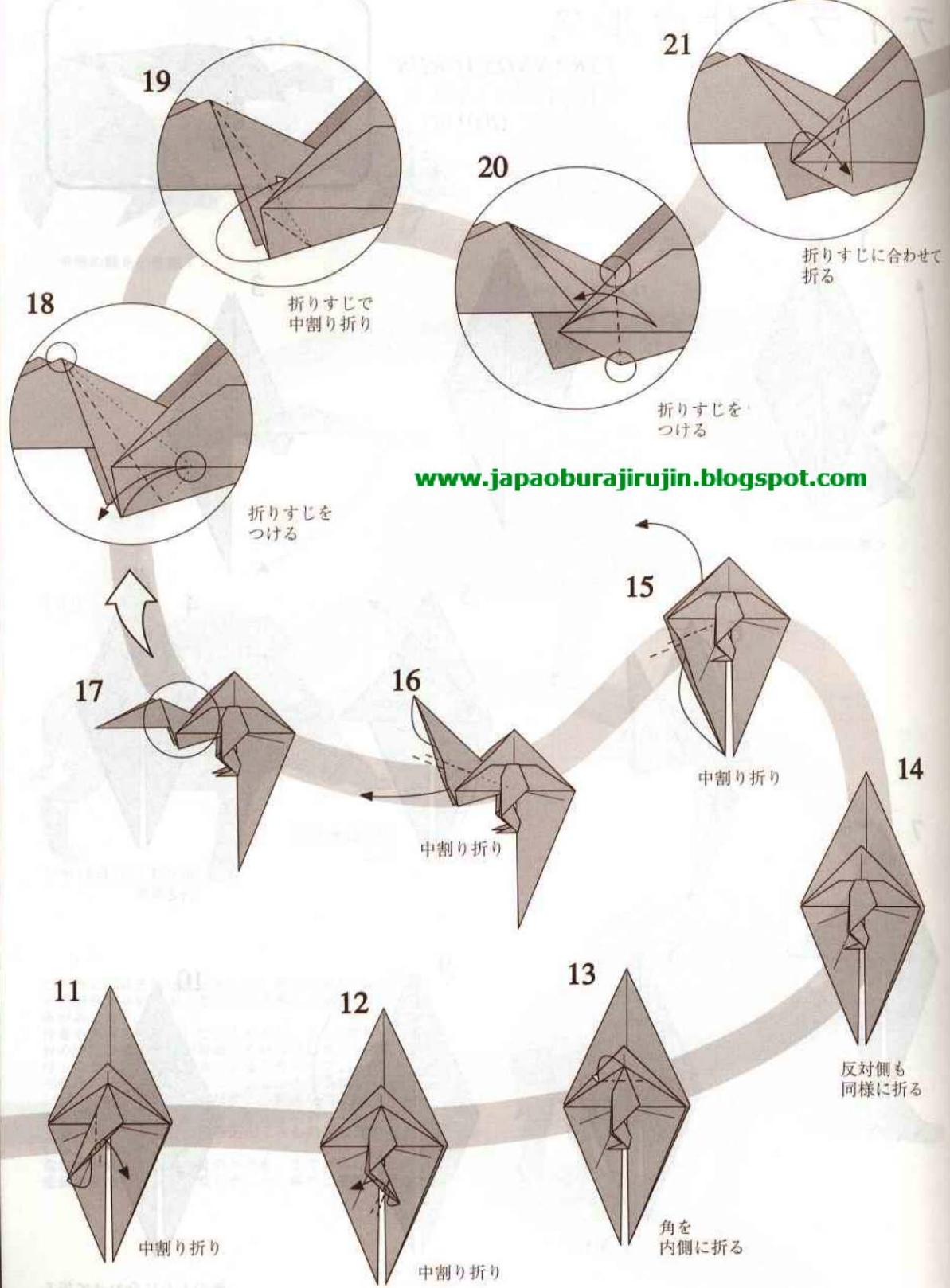
折りすじに合わせて  
折る

折りすじをつける

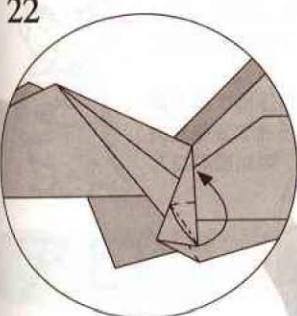
つまみ折り

紙のふちに合わせて折る

125

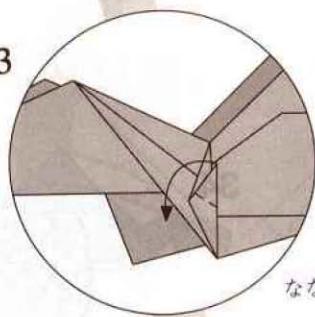


22



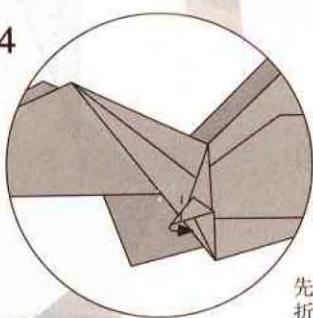
引き寄せるように  
折る

23



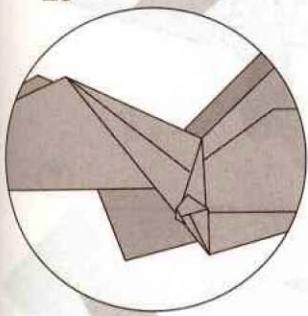
ななめに折る

24



先端を  
折り返す

25

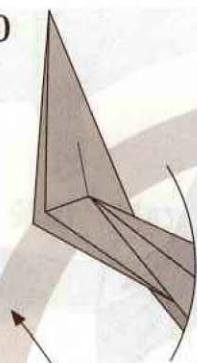


26



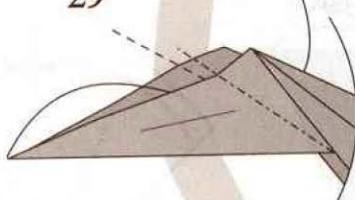
反対側も  
同様に折る

30



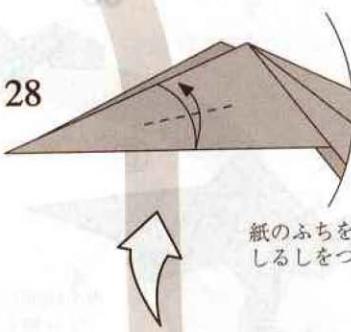
このように  
折る

29



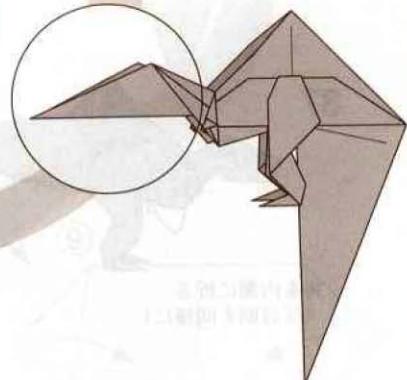
つけたしを  
角に合わせるように  
中割り折り  
(次図参照)

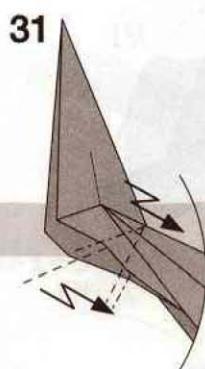
28



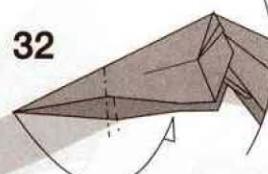
紙のふちを合わせて  
しをつける

27

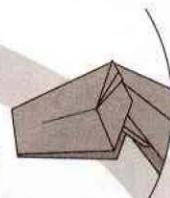




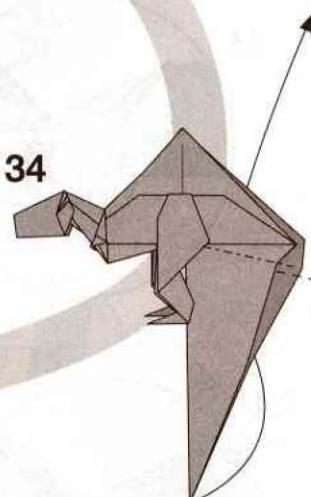
31  
ななめに段折り



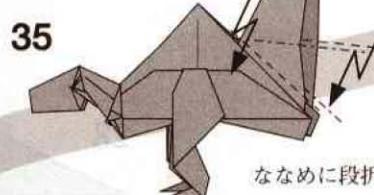
32  
先端を中割り折り



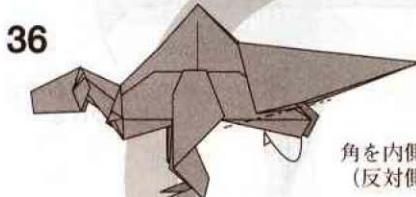
33



34  
折りすじで  
中割り折り



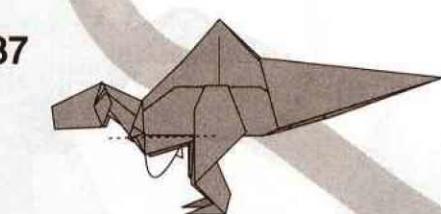
35  
ななめに段折り



36  
角を内側に折る  
(反対側も同様に)



39  
完成



37  
角を内側に折る  
(反対側も同様に)

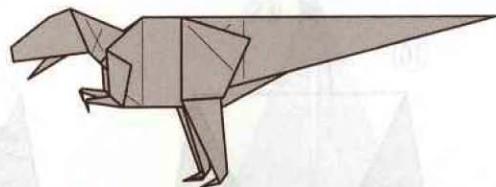


38  
角を折って  
差し込む



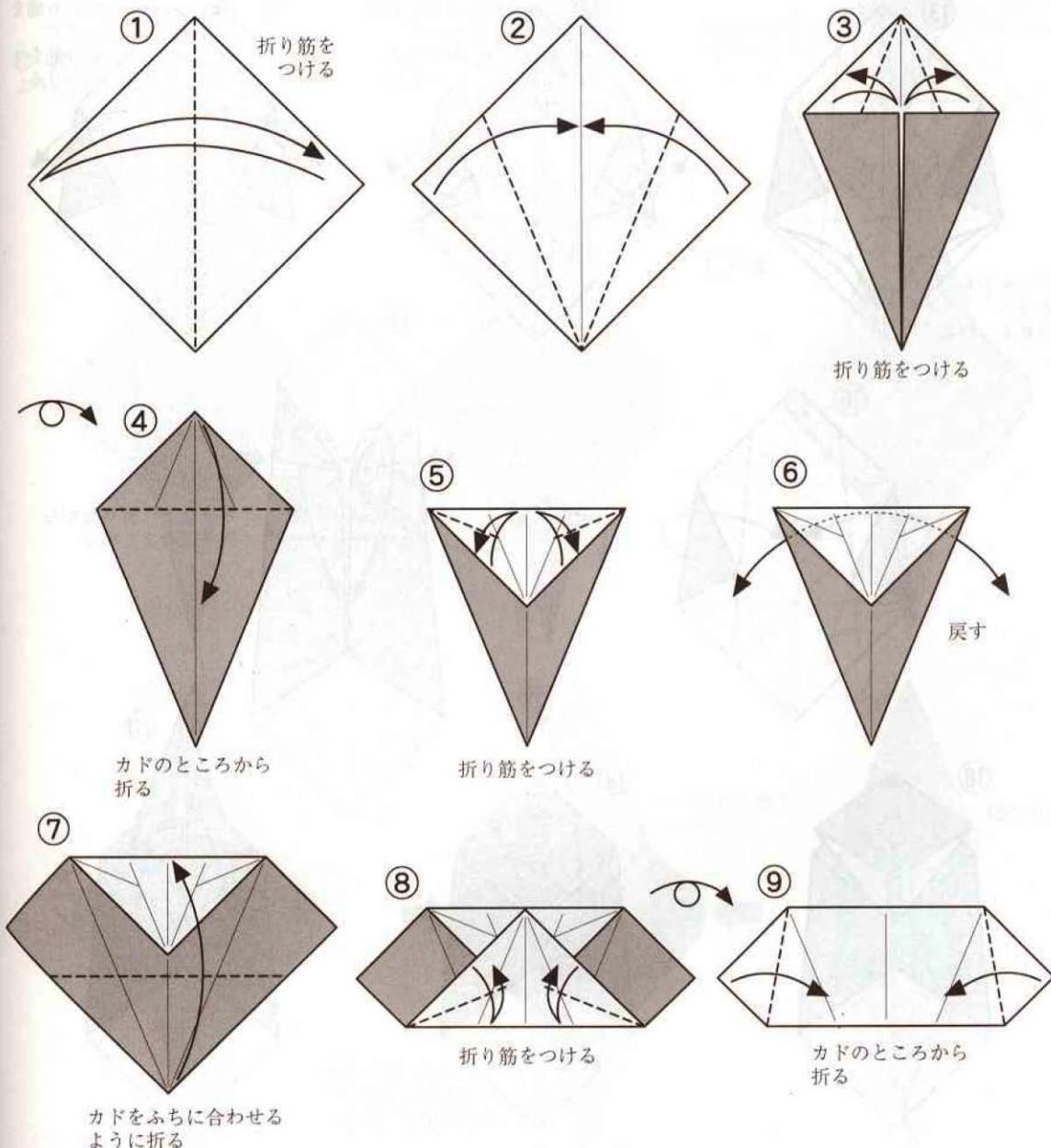
昨年、発表したセイスモサウルスの基本型のバランスを変えてアロサウルスを作つてみました。

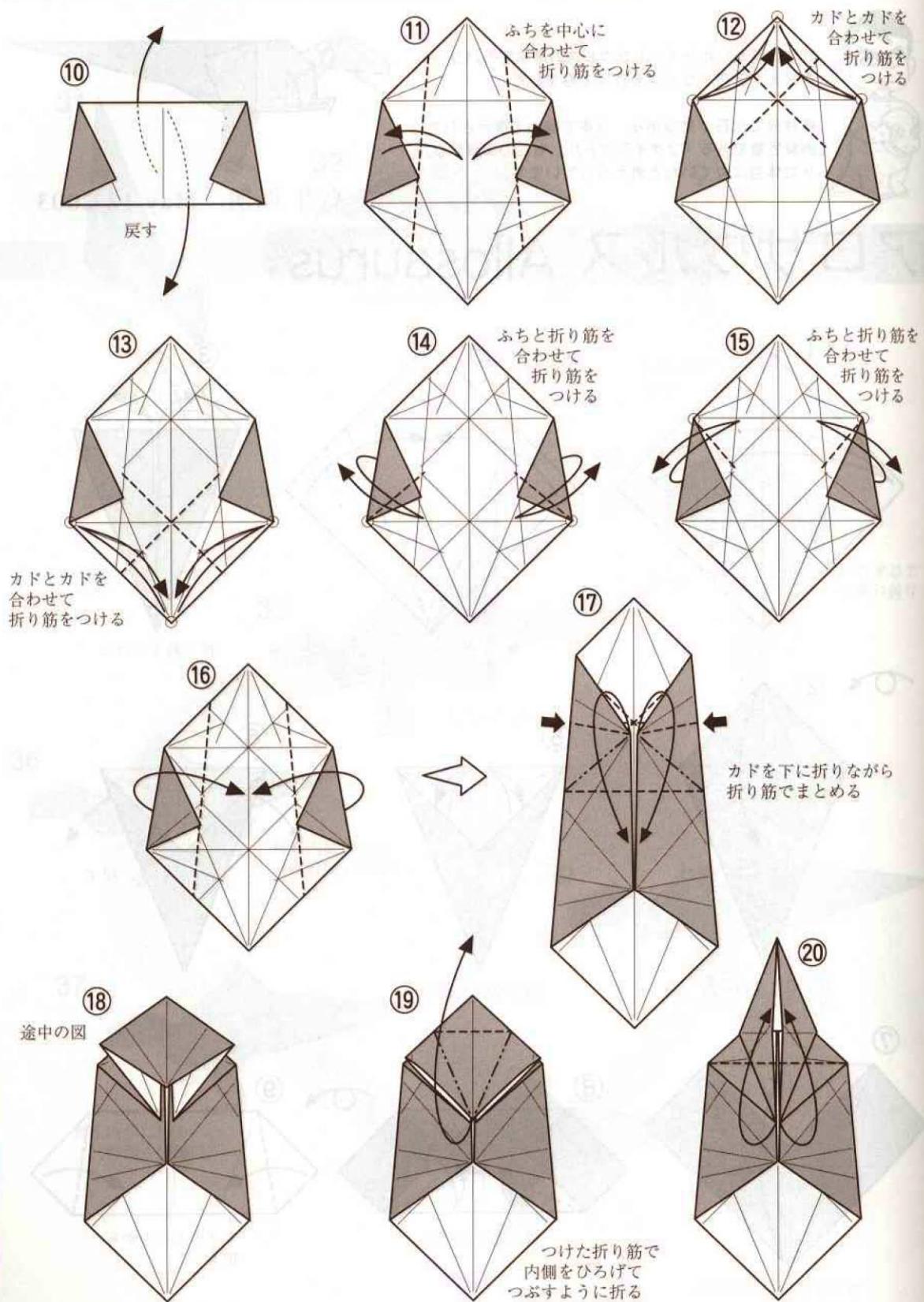
福井県で化石が見つかり、日本で初めて復元された肉食恐竜である「フクイラブトル」もこのアロサウルスに体型は似ていたと考えられています。



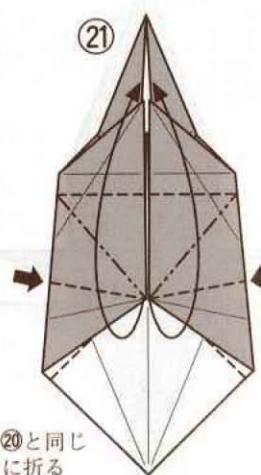
高井 弘明 May 18 2003

## アロサウルス Allosaurus



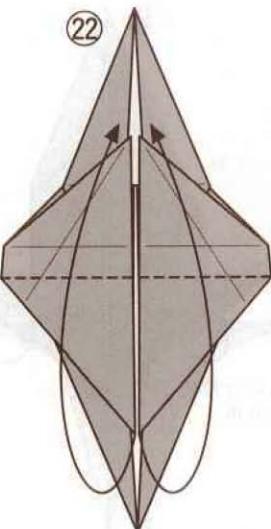


②1

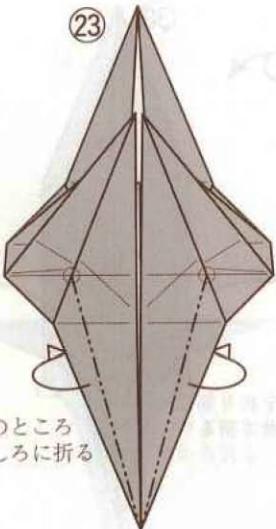


⑯～⑳と同じ  
ように折る

②2

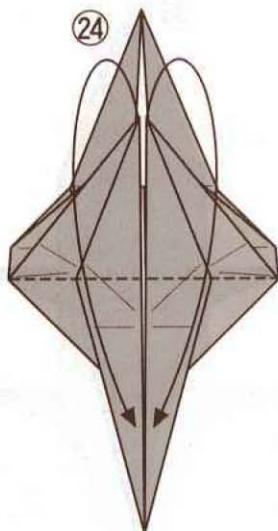


②3

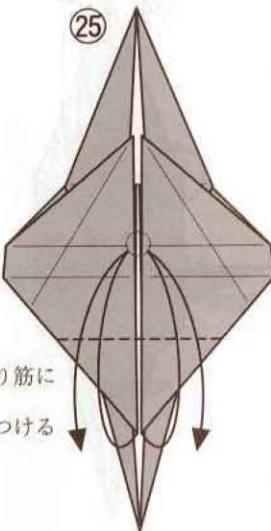


折り筋のところ  
からうしろに折る

②4

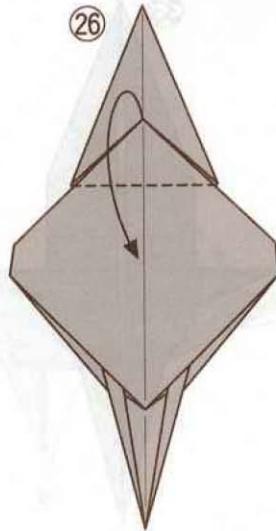


②5

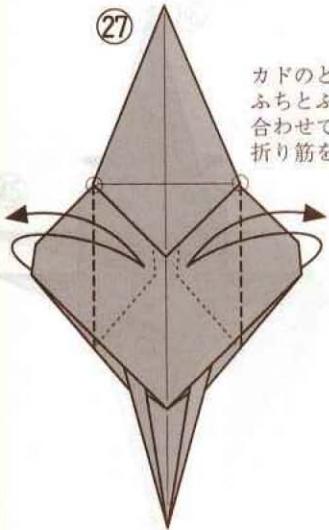


カドを折り筋に  
合わせて  
折り筋をつける

②6

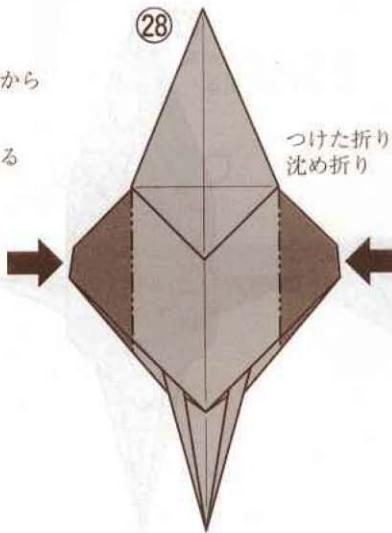


②7



カドのところから  
ふちとふちを  
合わせて  
折り筋をつける

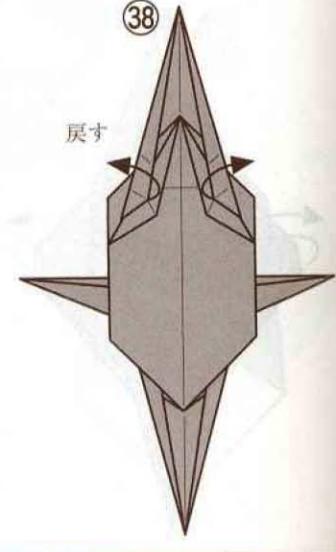
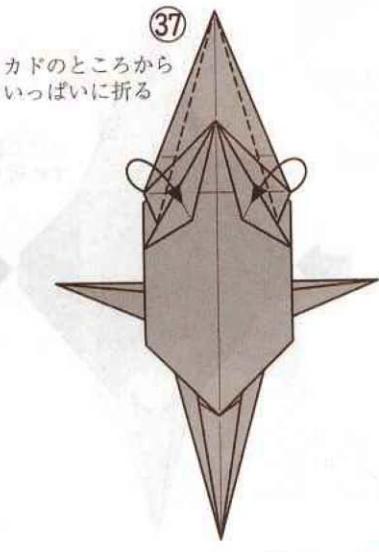
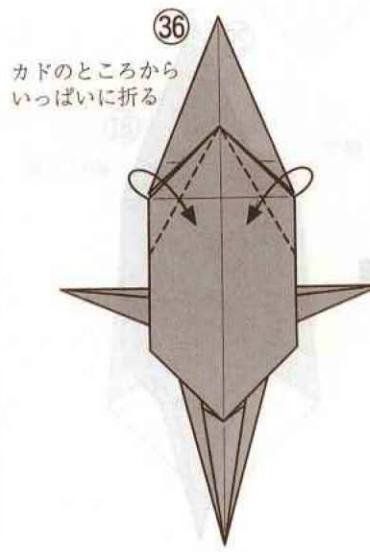
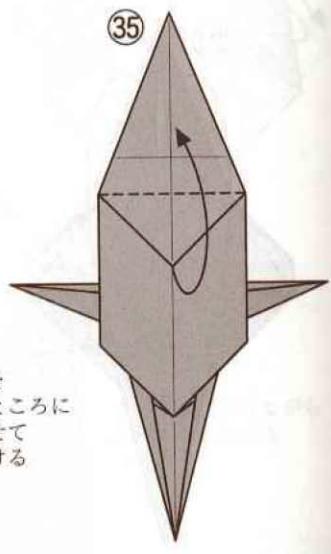
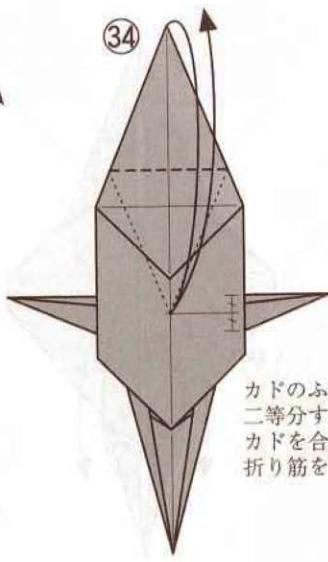
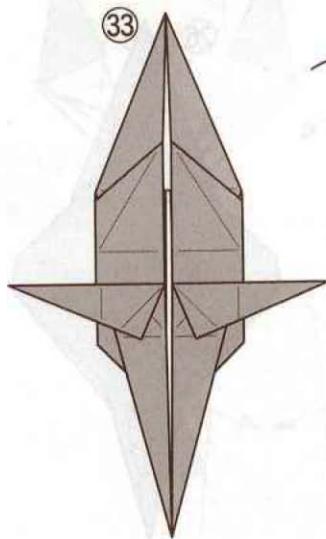
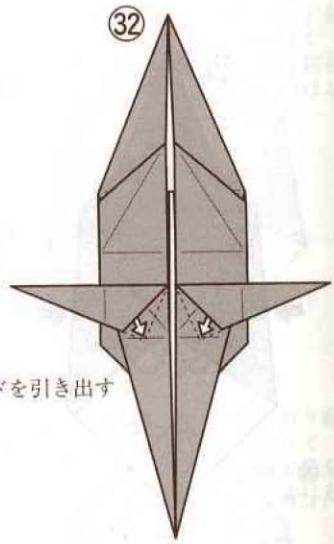
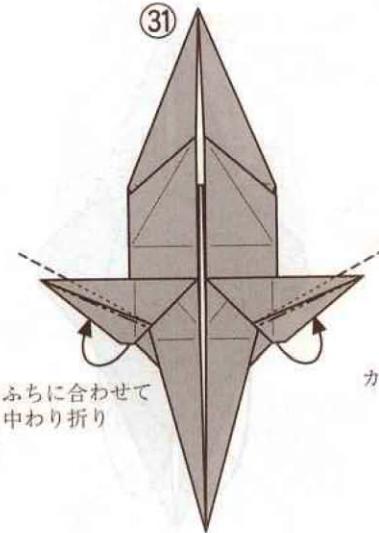
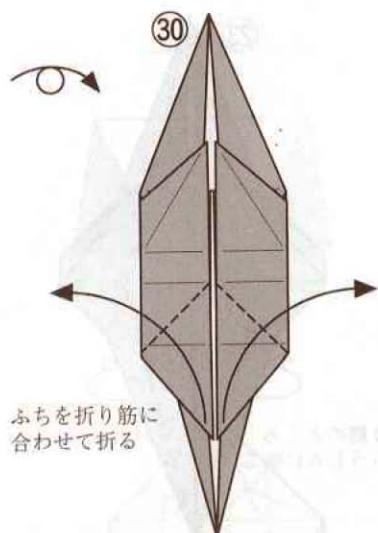
②8

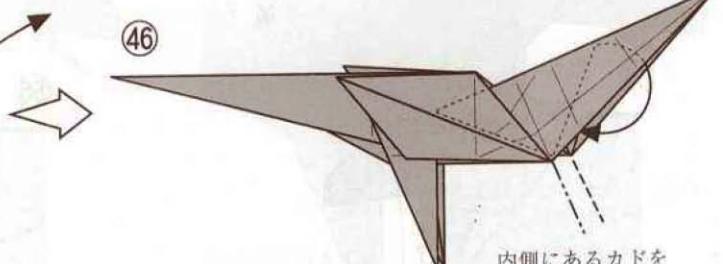
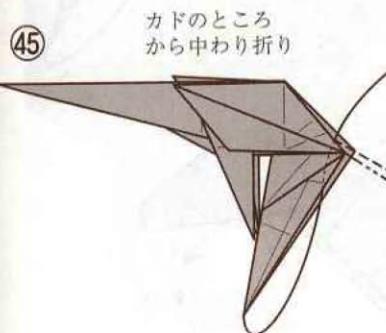
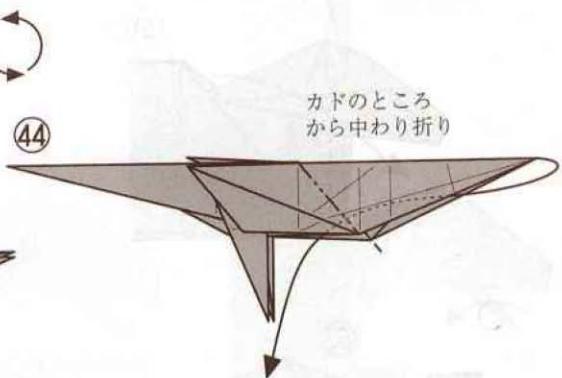
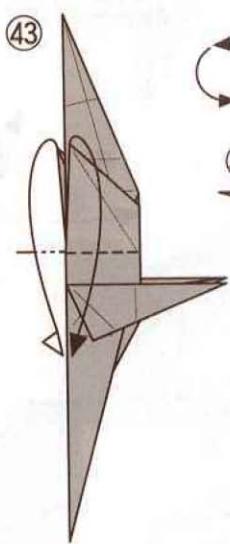
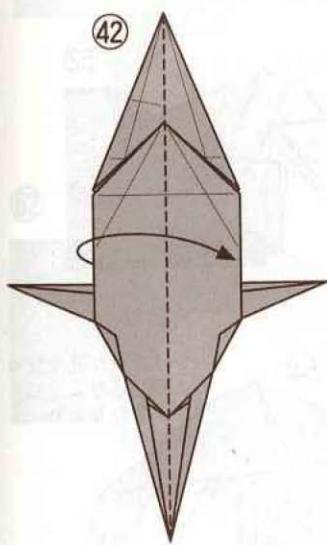
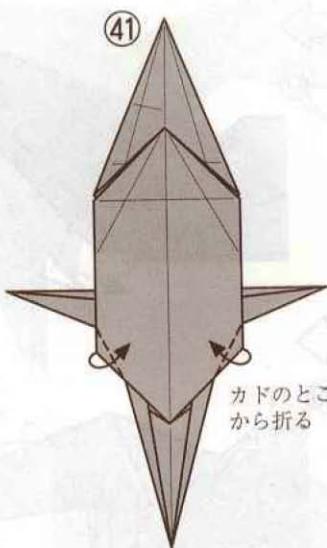
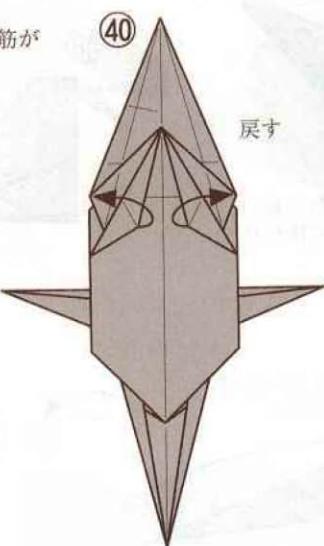
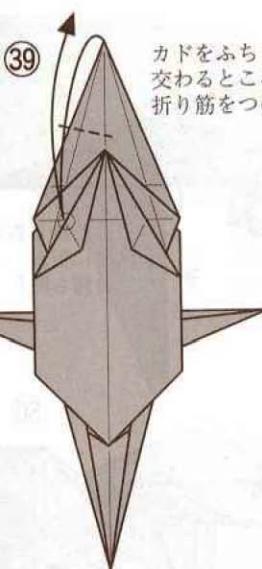


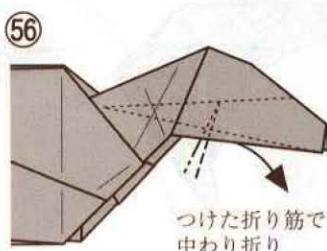
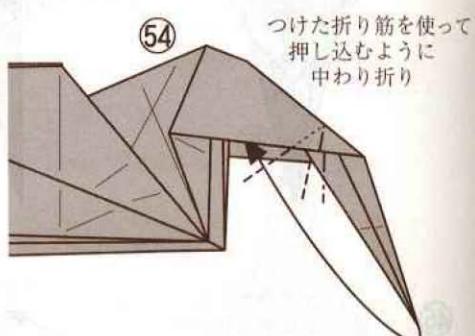
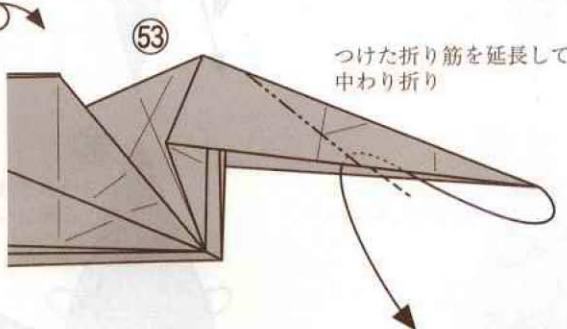
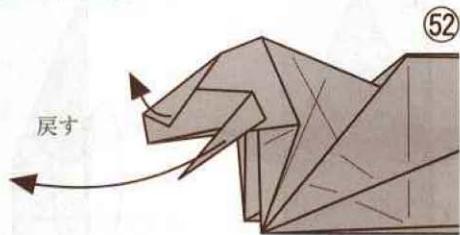
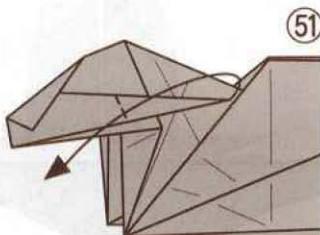
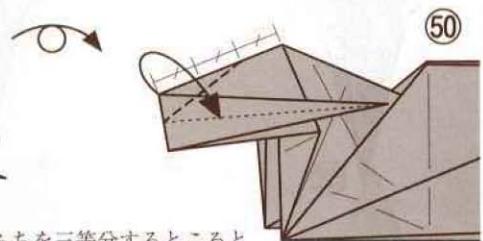
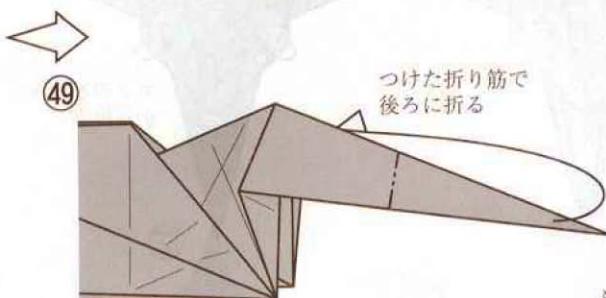
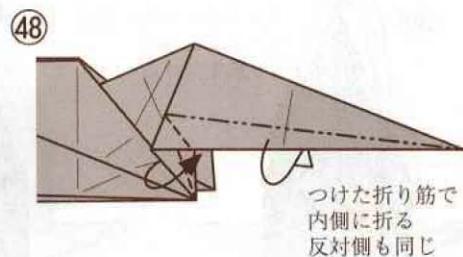
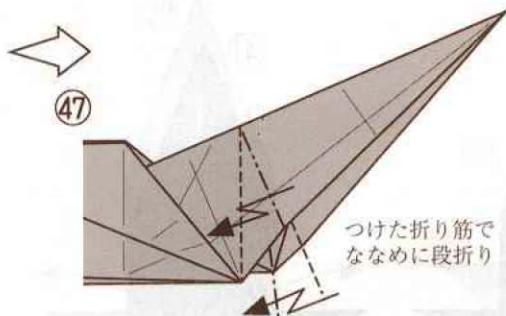
つけた折り筋で  
沈め折り

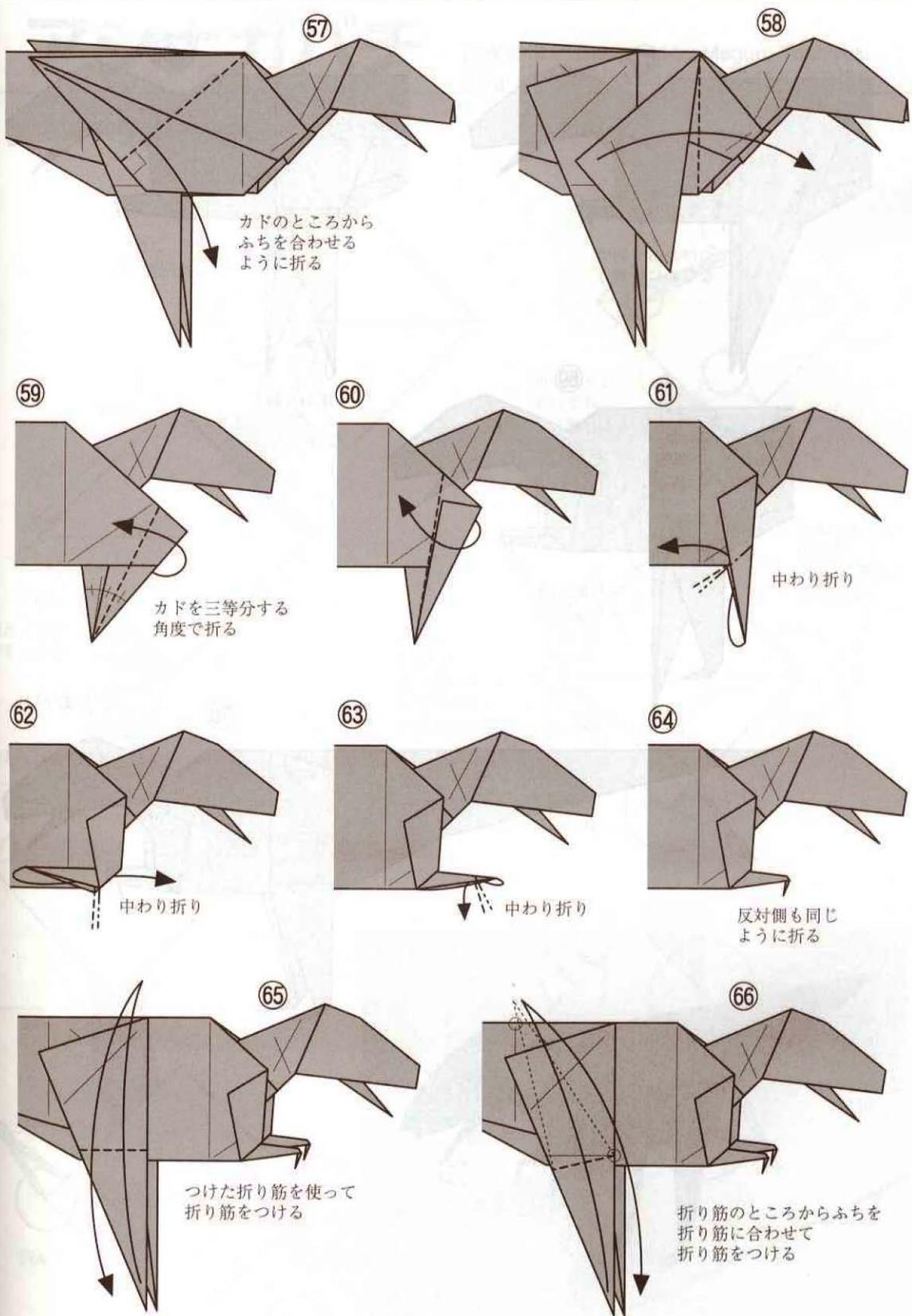
②9



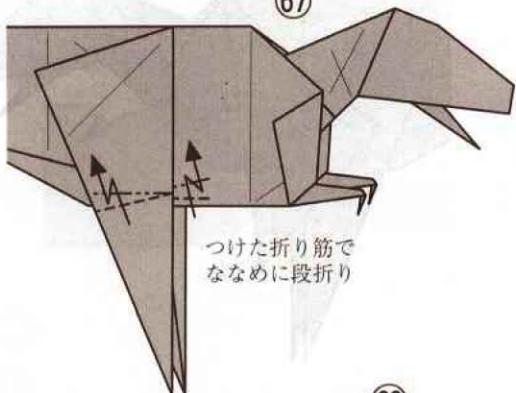




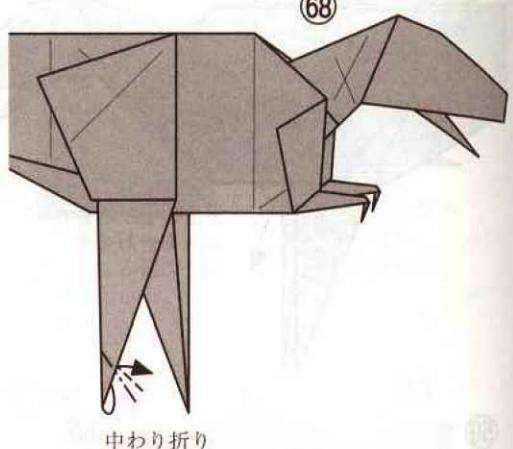




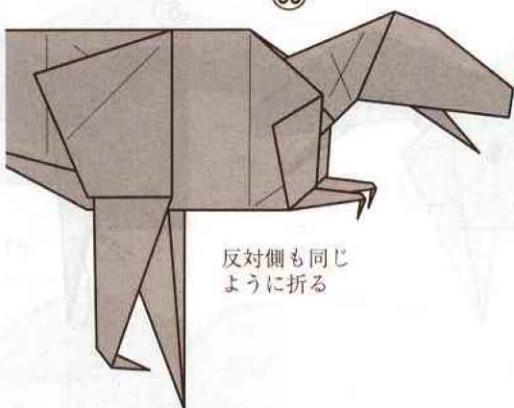
⑥7



⑥8

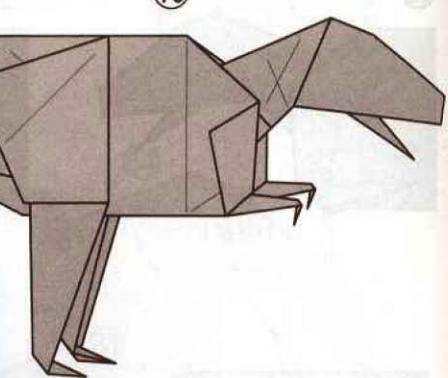


⑥9



反対側も同じ  
ように折る

⑦0



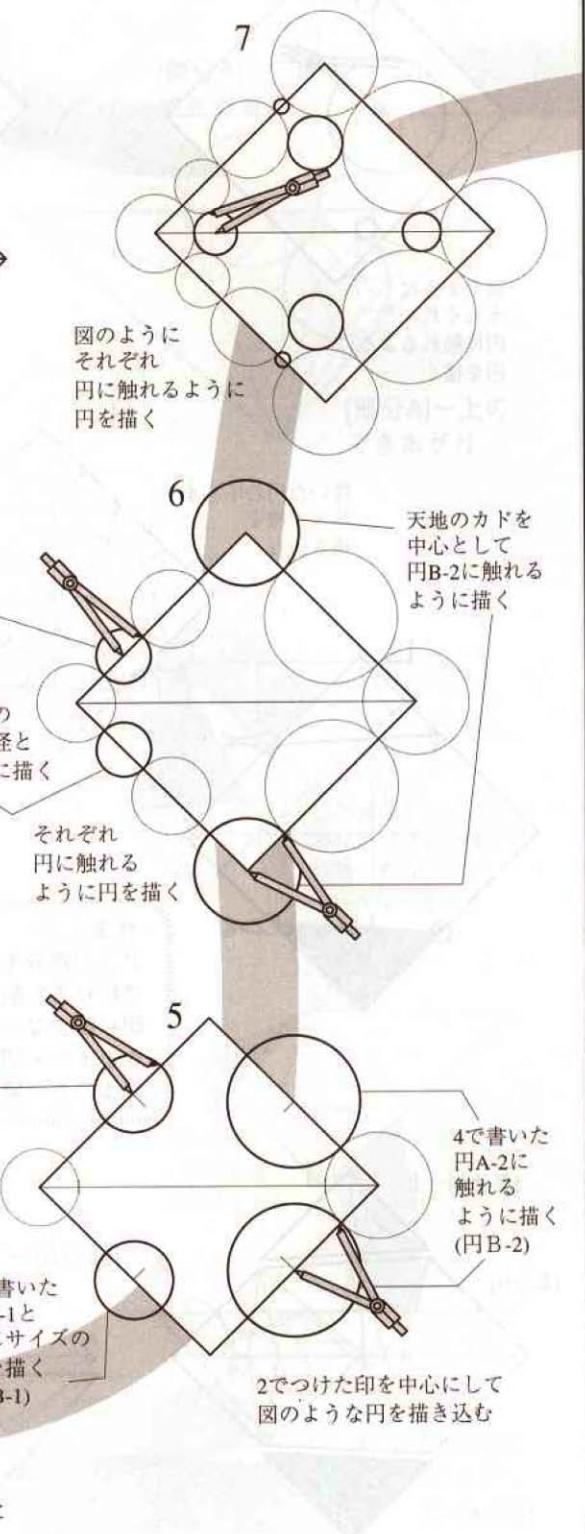
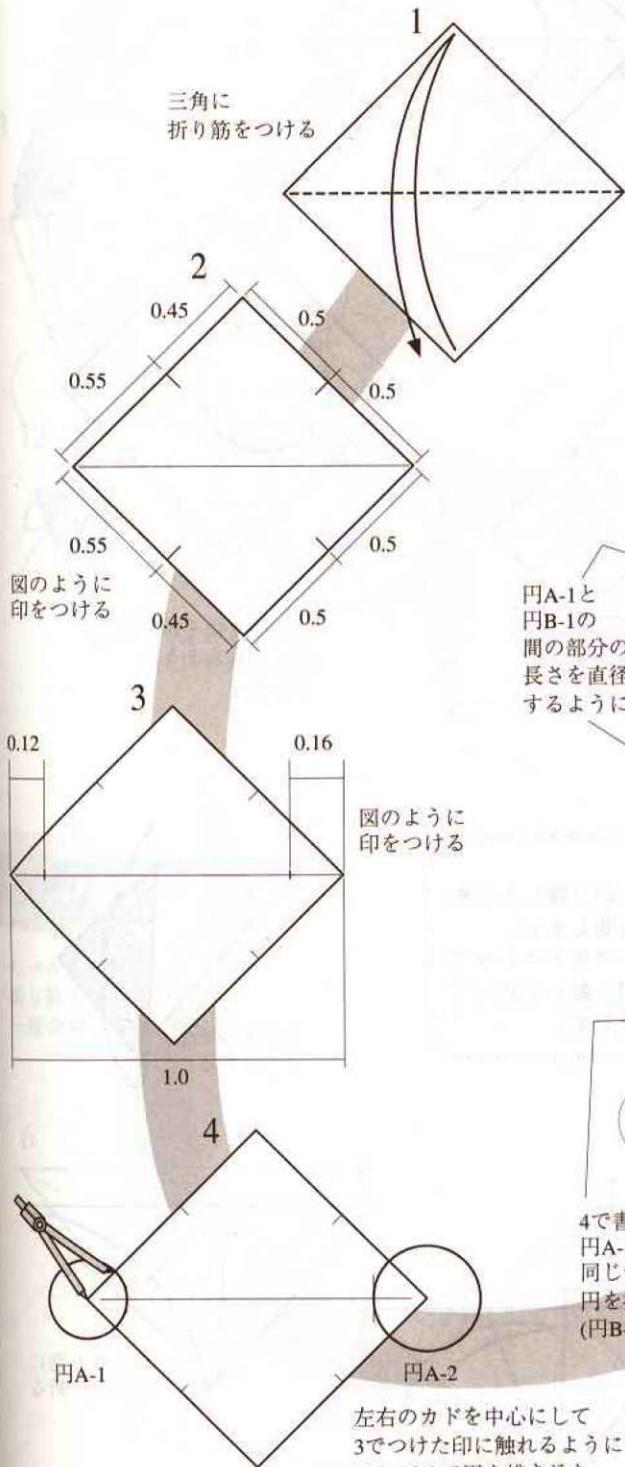
できあがり



# アシナガバチ

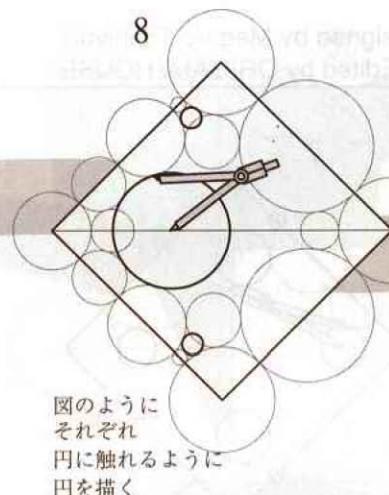
目黒俊幸 / Designed by Meguro Toshiyuki  
Diagrams and Edited by ORIGAMI HOUSE

## Long-legged wasp



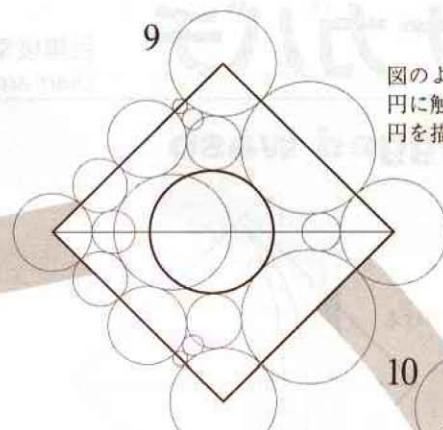
左右のカドを中心にして  
3でつけた印に触れるように  
コンパスで円を書き込む

8



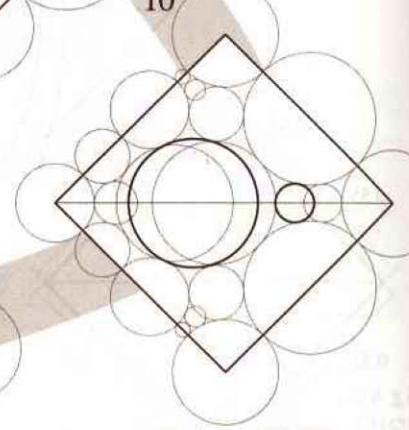
図のように  
それぞれ  
円に触れるように  
円を描く

9

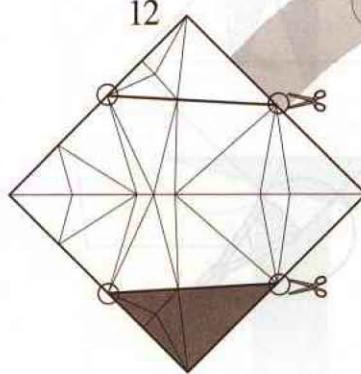


図のように  
円に触れるように  
円を描く

10

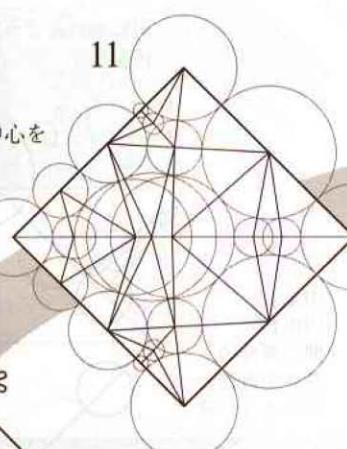


12



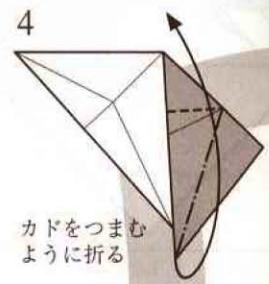
描いた円の中心を  
結んで線を  
書き込む

11



図のようにそれぞれ  
円に触れるように  
円を描く

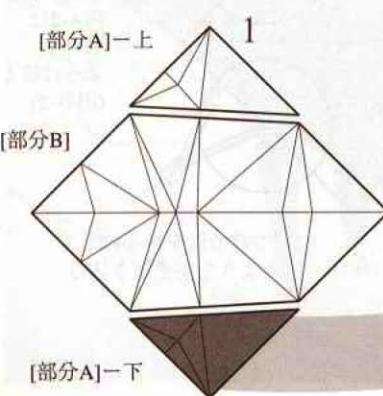
4



-作者より-  
アミの部分を切り離した状態  
で折り方を説明します。  
切り離さないで折ることができますが、  
切り離して折ってみるのも一興です。

[部分A]-上

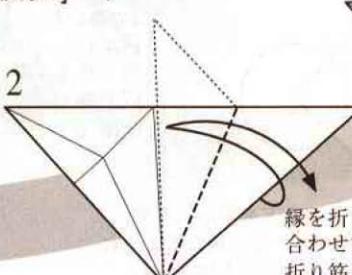
1



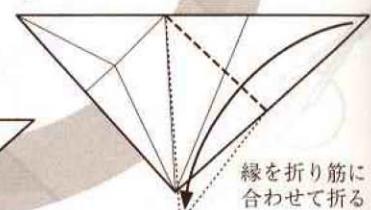
[部分B]

[部分A]-下

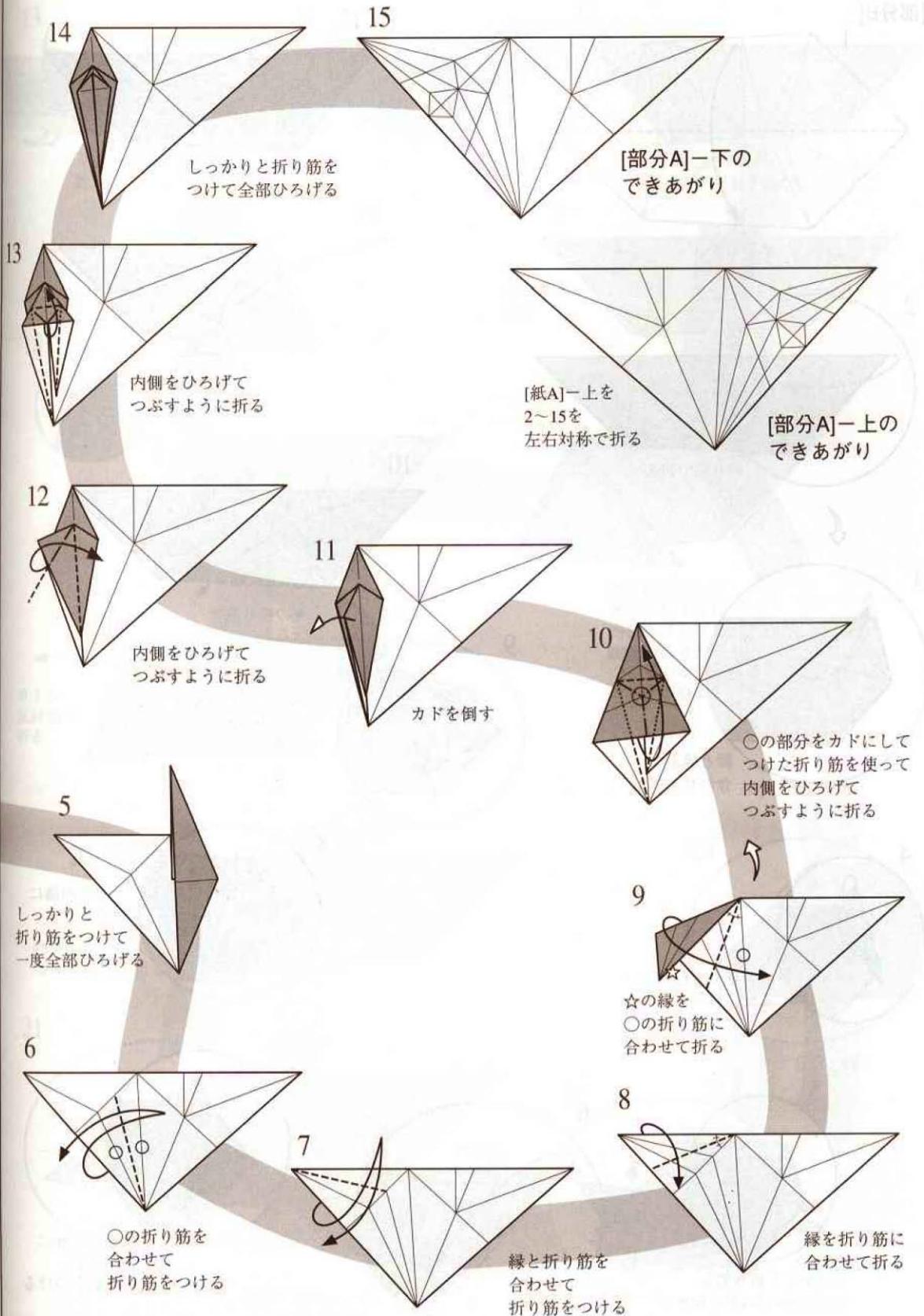
2



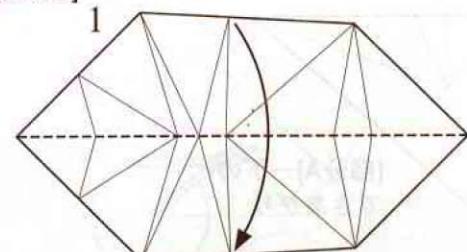
3



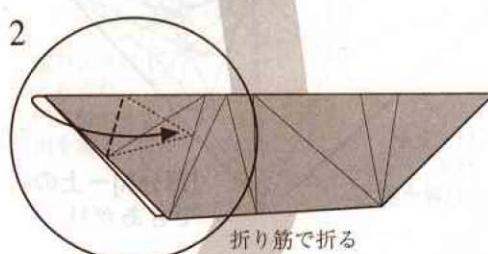
縁を折り筋に  
合わせて  
折り筋をつける



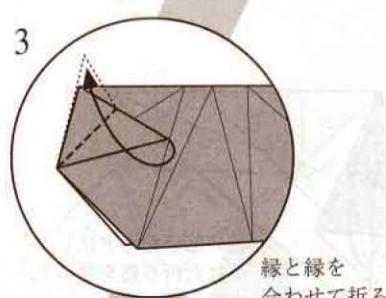
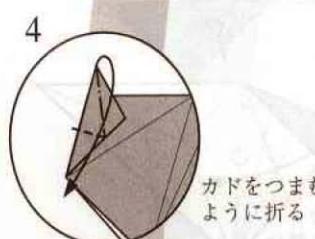
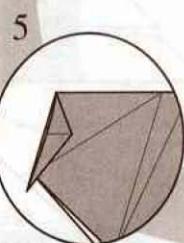
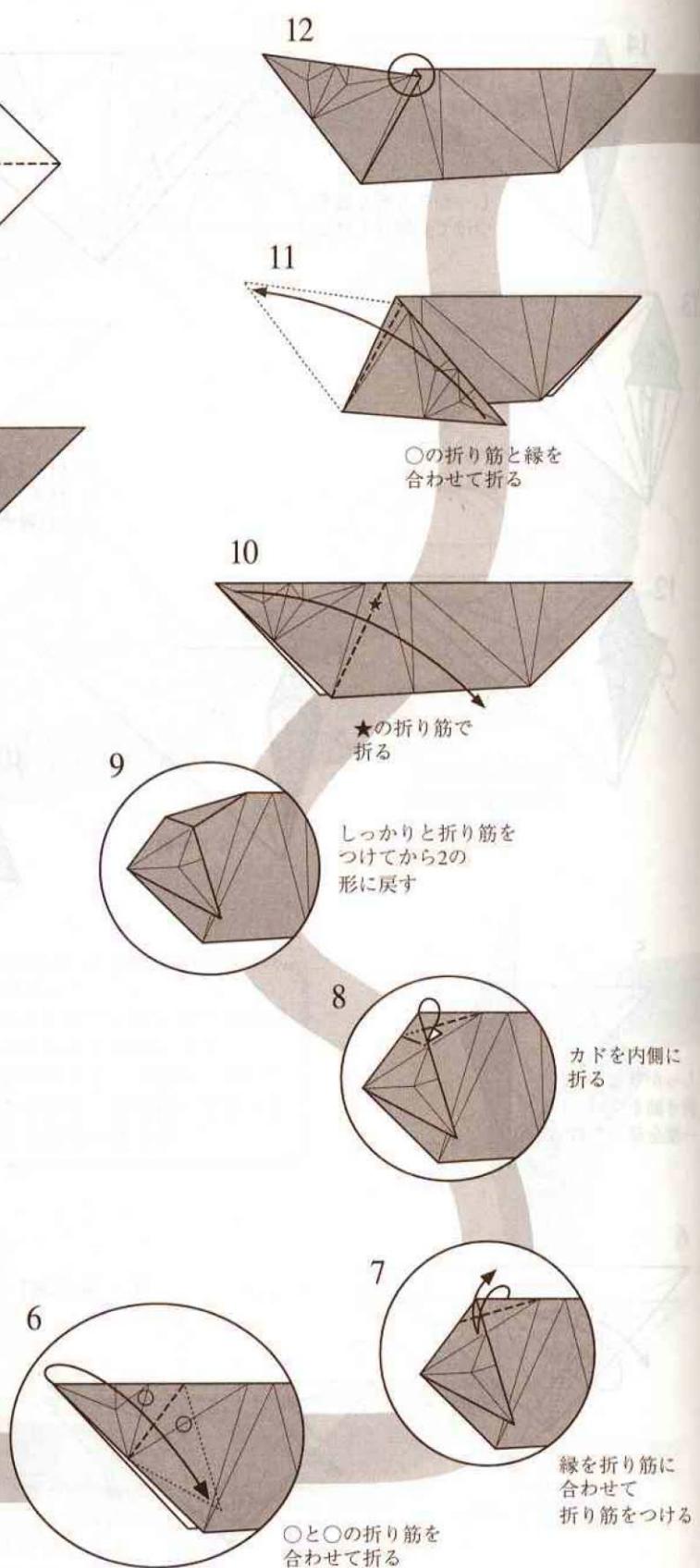
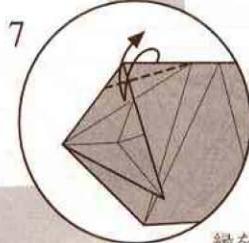
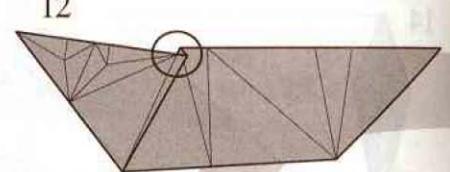
## [部分B]



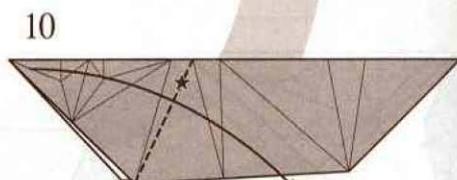
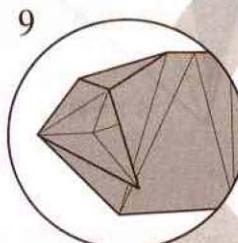
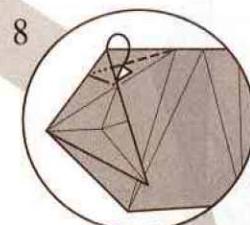
半分に折る

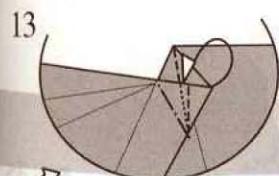


折り筋で折る

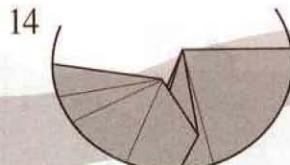
縁と縁を  
合わせて折るカドをつまむ  
ように折るしっかりと折り筋を  
つけてから2の形に戻す○と○の折り筋を  
合わせて折る縁を折り筋に  
合わせて  
折り筋をつける

11

○の折り筋と縁を  
合わせて折る★の折り筋で  
折るしっかりと折り筋を  
つけてから2の  
形に戻すカドを内側に  
折る



カドを内側に  
折る

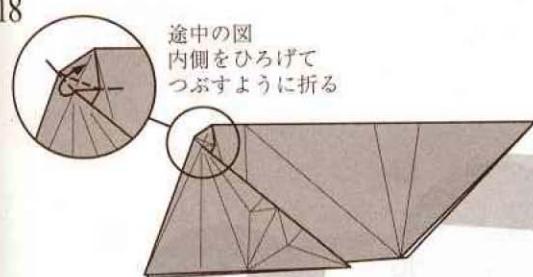


15



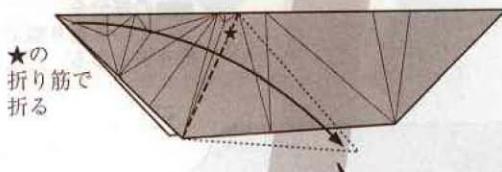
しっかりと折り筋を  
つけてから10の形に戻す

18

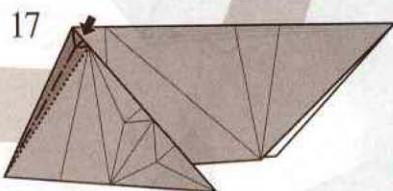


途中の図  
内側をひろげて  
つぶすように折る

16



17



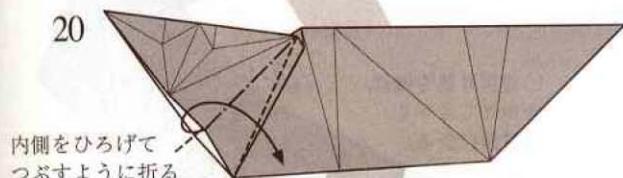
黒矢印の部分を  
押し込むように  
内側をひろげて  
■の部分を  
ついている折り筋で  
折りまとめる

19



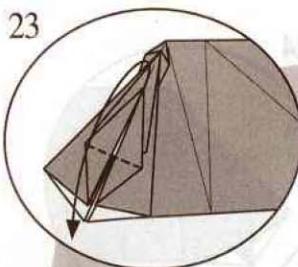
カドを  
反対側に  
折る

20



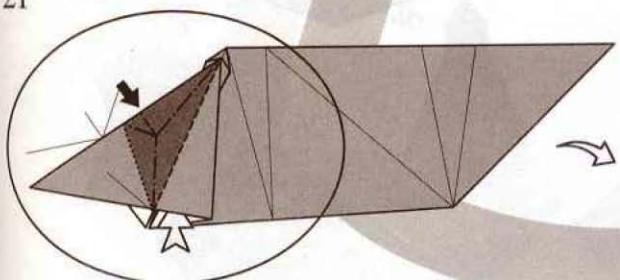
内側をひろげて  
つぶすように折る

23



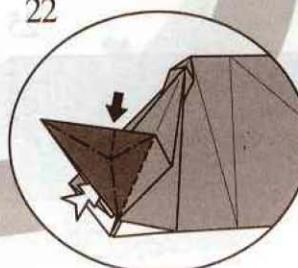
カドを下に折る

21



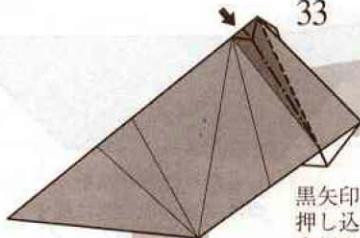
黒矢印の部分を押し込むように  
内側をひろげて ■の部分を  
ついている折り筋で折りまとめる

22



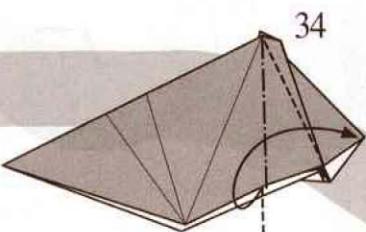
黒矢印の部分を  
押し込むように  
内側をひろげて  
■の部分を  
ついている折り筋で  
折りまとめる

33



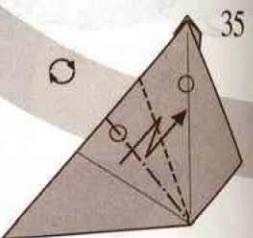
黒矢印の部分を  
押し込むように  
内側をひろげて  
■の部分を  
ついている折り筋で  
折りまとめる

34



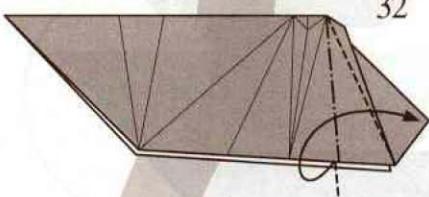
内側をひろげて  
つぶすように折る

35



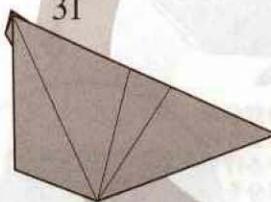
○と○の折り筋を  
合わせて  
斜めに段折り

32



内側を  
ひろげて  
つぶすように  
折る

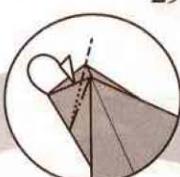
31



しっかりと  
折り筋をつけて  
25の形まで戻す

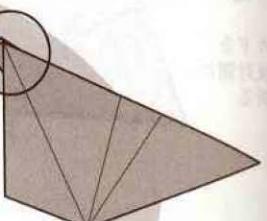


29

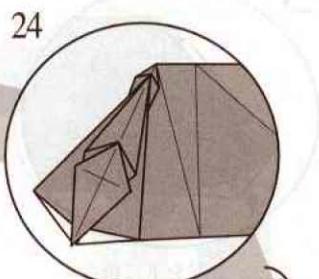


縁と縁を合わせて  
カドを内側に折る

28

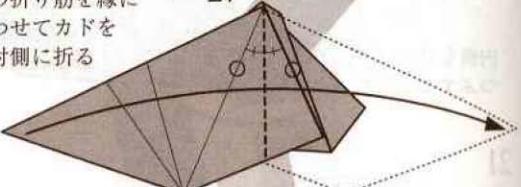


24



○の折り筋を縁に  
合わせてカドを  
反対側に折る

27

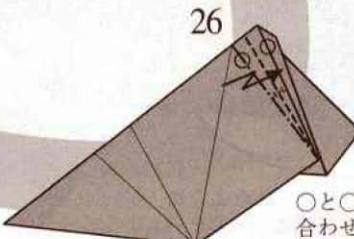


25

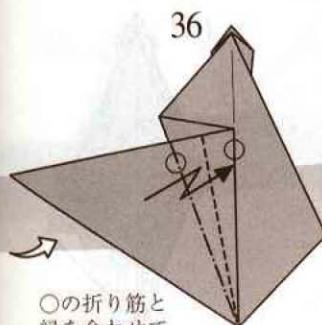


○と○の折り筋を  
合わせて  
斜めに段折り

26



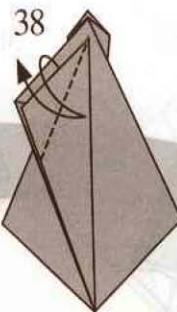
○と○の折り筋を  
合わせて  
斜めに段折り



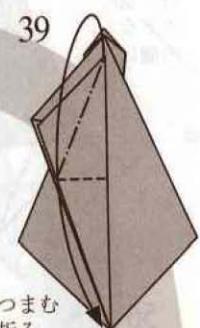
○の折り筋と  
縁を合わせて  
斜めに段折り



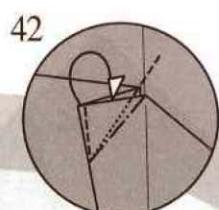
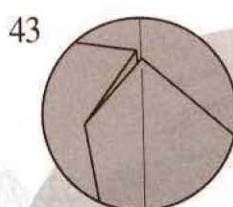
縁と縁を  
合わせて折る



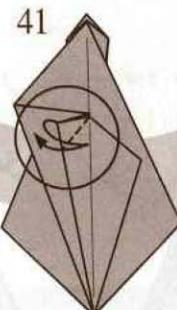
縁と縁を合わせて  
折り筋をつける



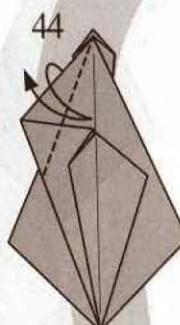
カドをつまむ  
ように折る



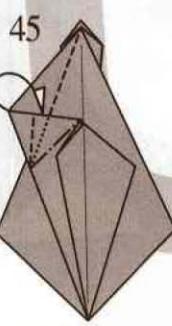
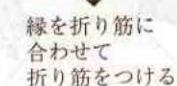
カドを  
内側に折る



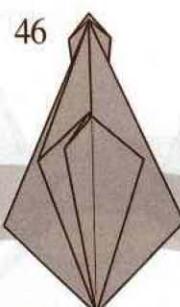
カドを反対側に  
折る



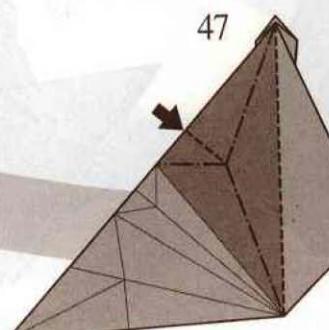
縁を折り筋に  
合わせて  
折り筋を  
つける



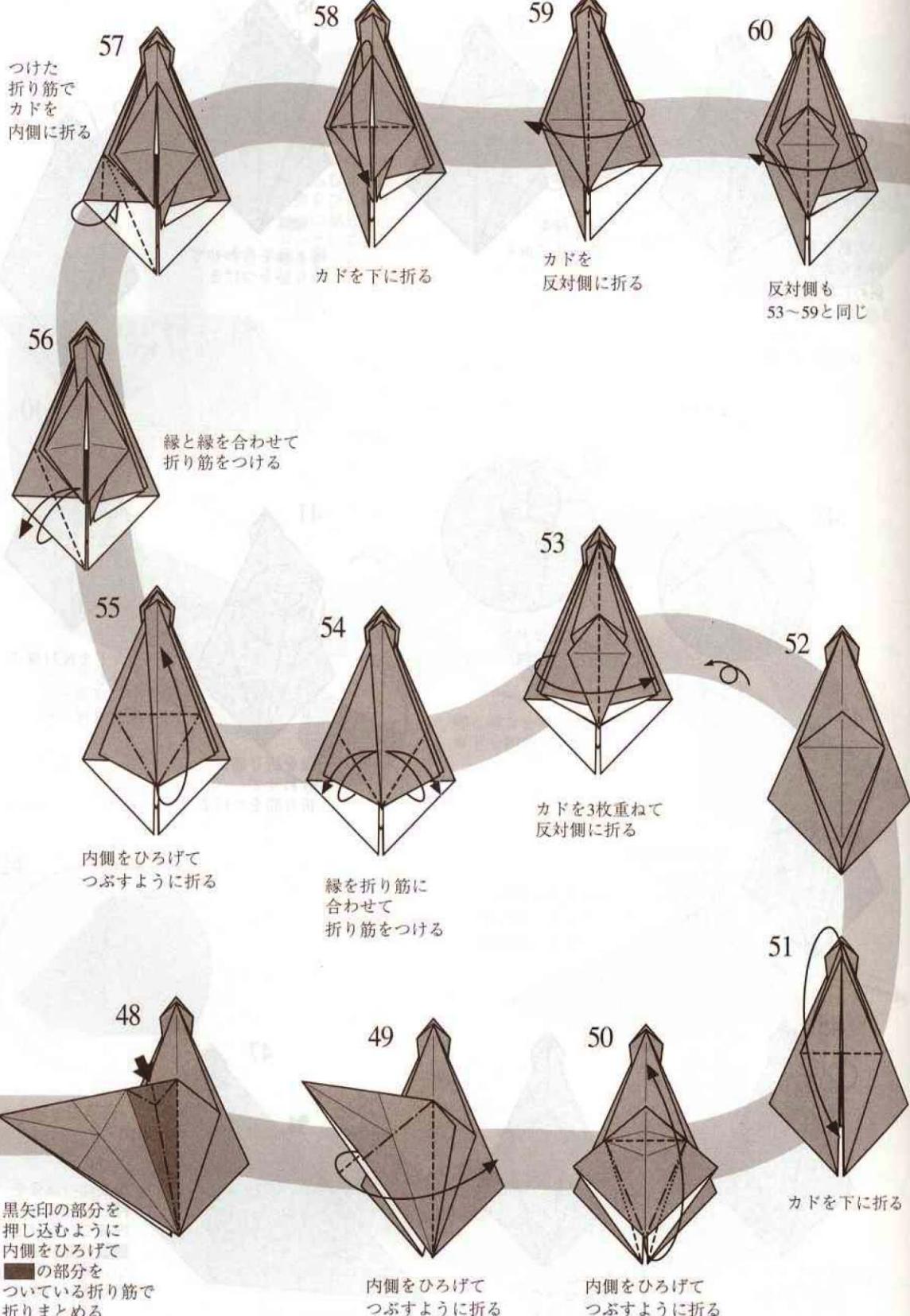
カドを  
内側に折る

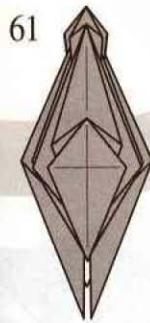


しっかりと  
折り筋をつけて  
35の形まで戻す

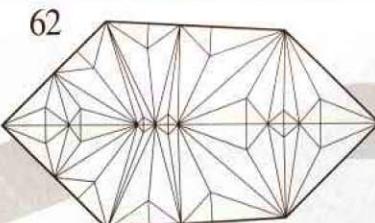


黒矢印の部分を  
押し込むように  
内側をひろげて  
■の部分を  
ついている折り筋で  
折りまとめる

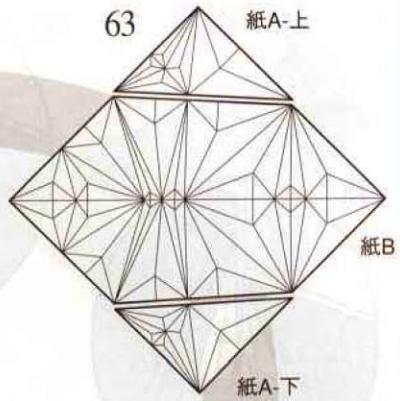




しっかりと  
折り筋をつけて  
全部ひろげる



[部分B]の  
できあがり

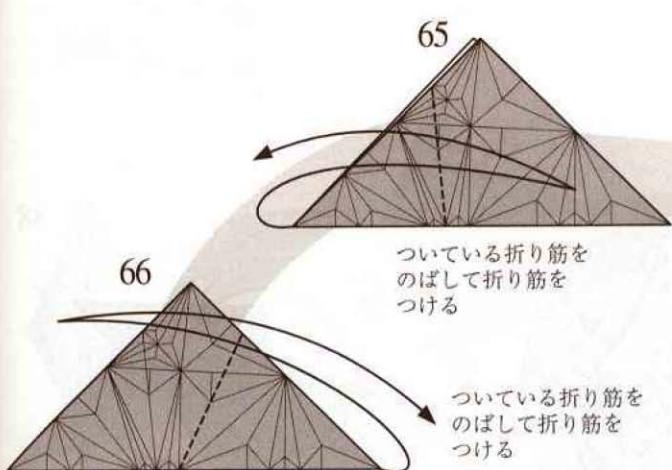


紙A-上

紙B

紙A-下

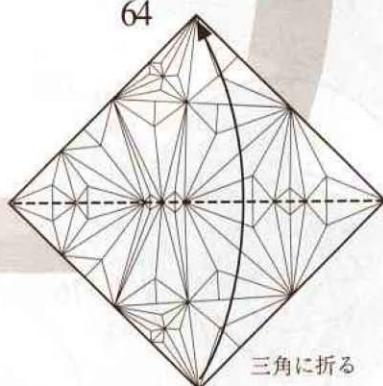
-作者より-  
ここまで用紙を仮想的に分けて  
表示してきましたが、ここから  
はまた不切正方一枚として表示  
します。



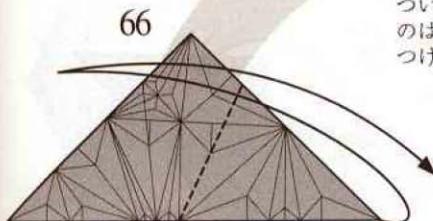
64

65

ついている折り筋を  
のばして折り筋を  
つける

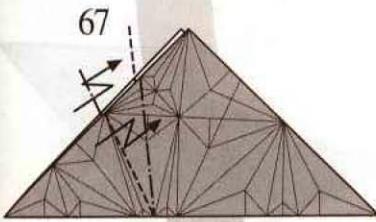


64



66

ついている折り筋を  
のばして折り筋を  
つける

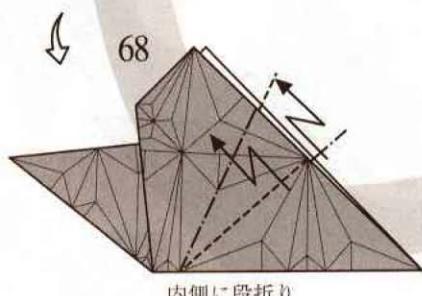
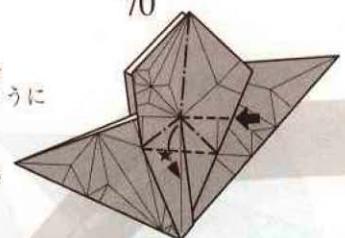


67

内側に段折り

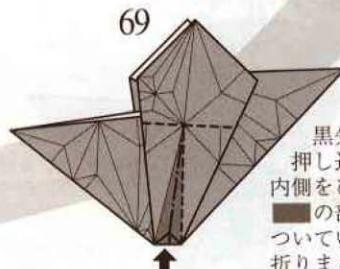
★のところを  
カドにするように  
ついている  
折り筋で  
折りまとめる

70



68

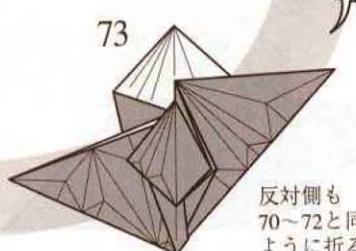
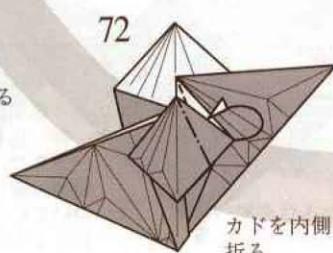
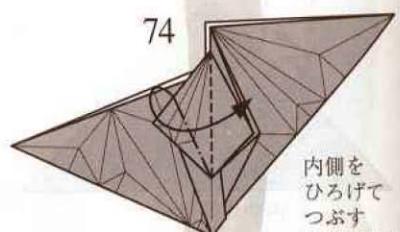
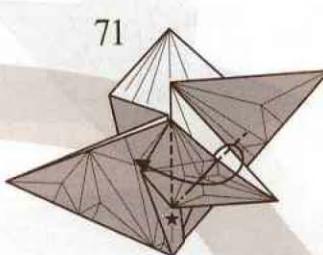
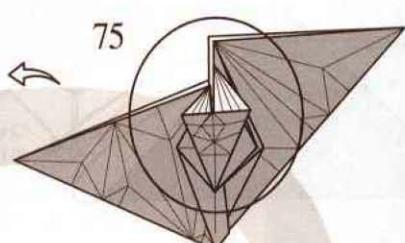
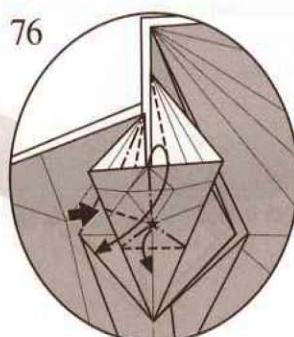
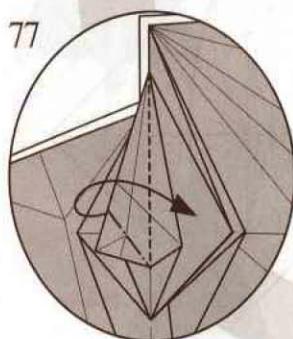
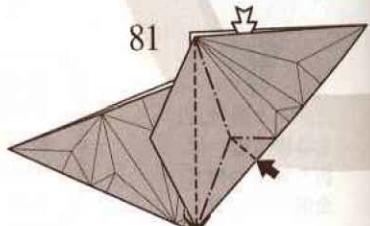
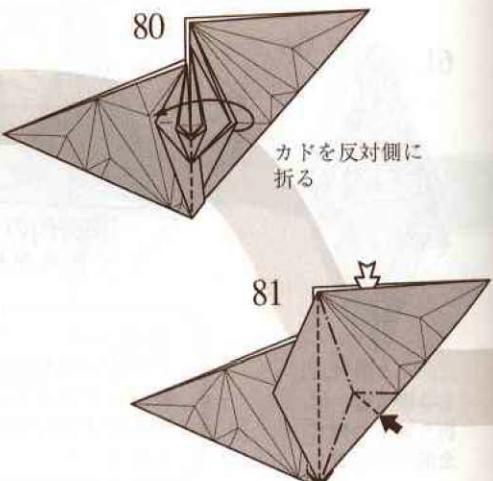
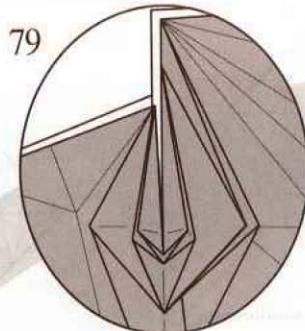
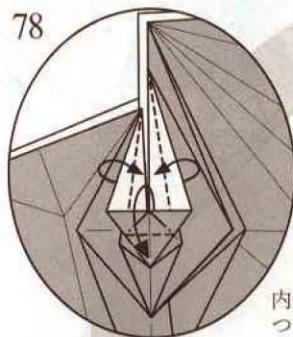
内側に段折り

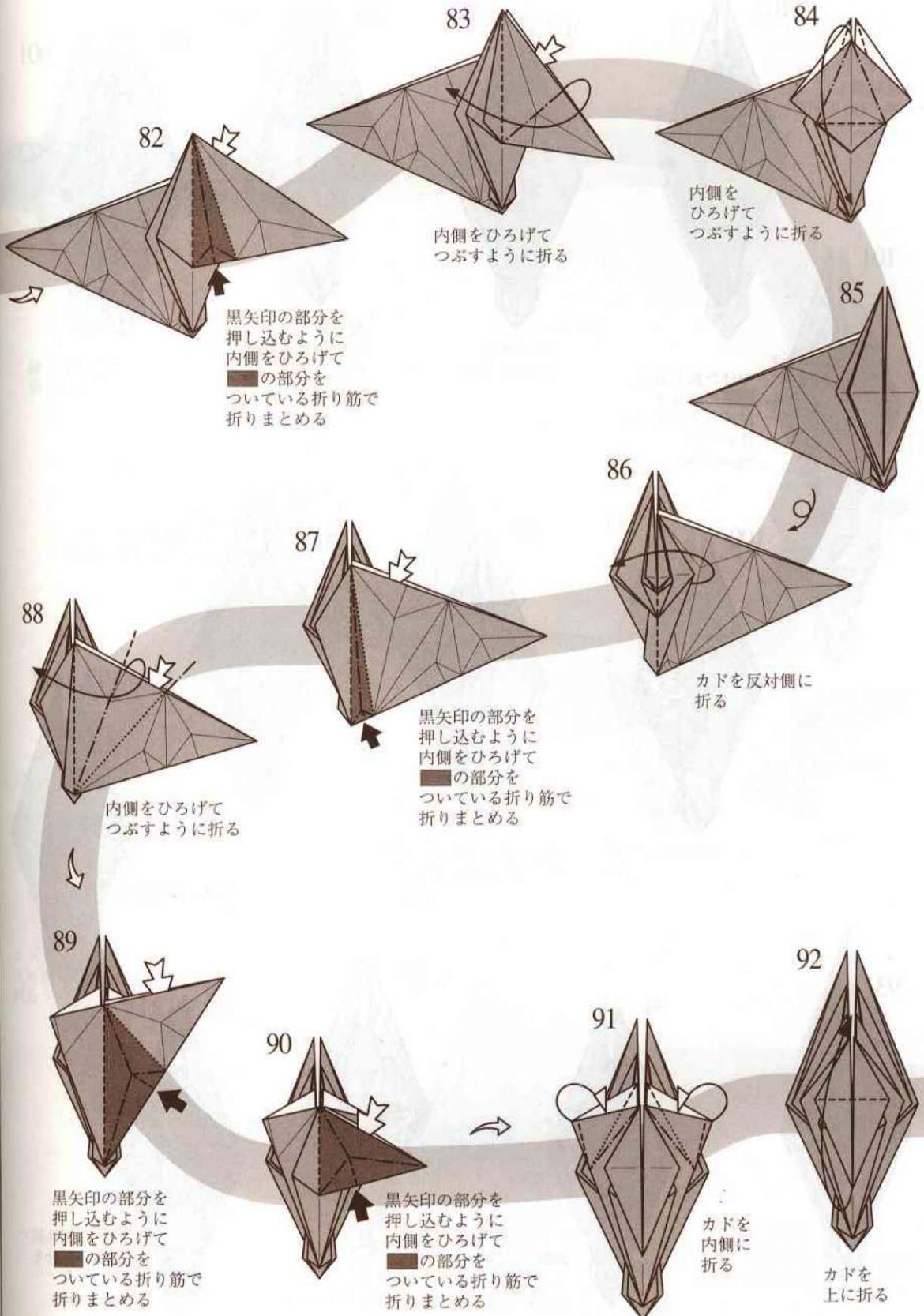


69

内側をひろげて

黒矢印の部分を  
押し込むように  
内側をひろげて  
■の部分を  
ついている折り筋で  
折りまとめる





102

反対側も  
98~101と同じ  
ように折る

103

104

105

101

つけた折り筋で  
■の部分を  
段折りするように  
沈め折り  
(open sink)

上の1枚を  
反対側に折る

反対側も  
97~103と  
同じように  
折る

100

折り筋を  
つけてから  
戻す

99

中心の折り筋のところで  
カドを反対側に折る

98

下の縁のところで  
カドを反対側に  
折る

97

カドを反対側に  
折る

93

カドを中心  
に合わせて  
折り筋をつける

94

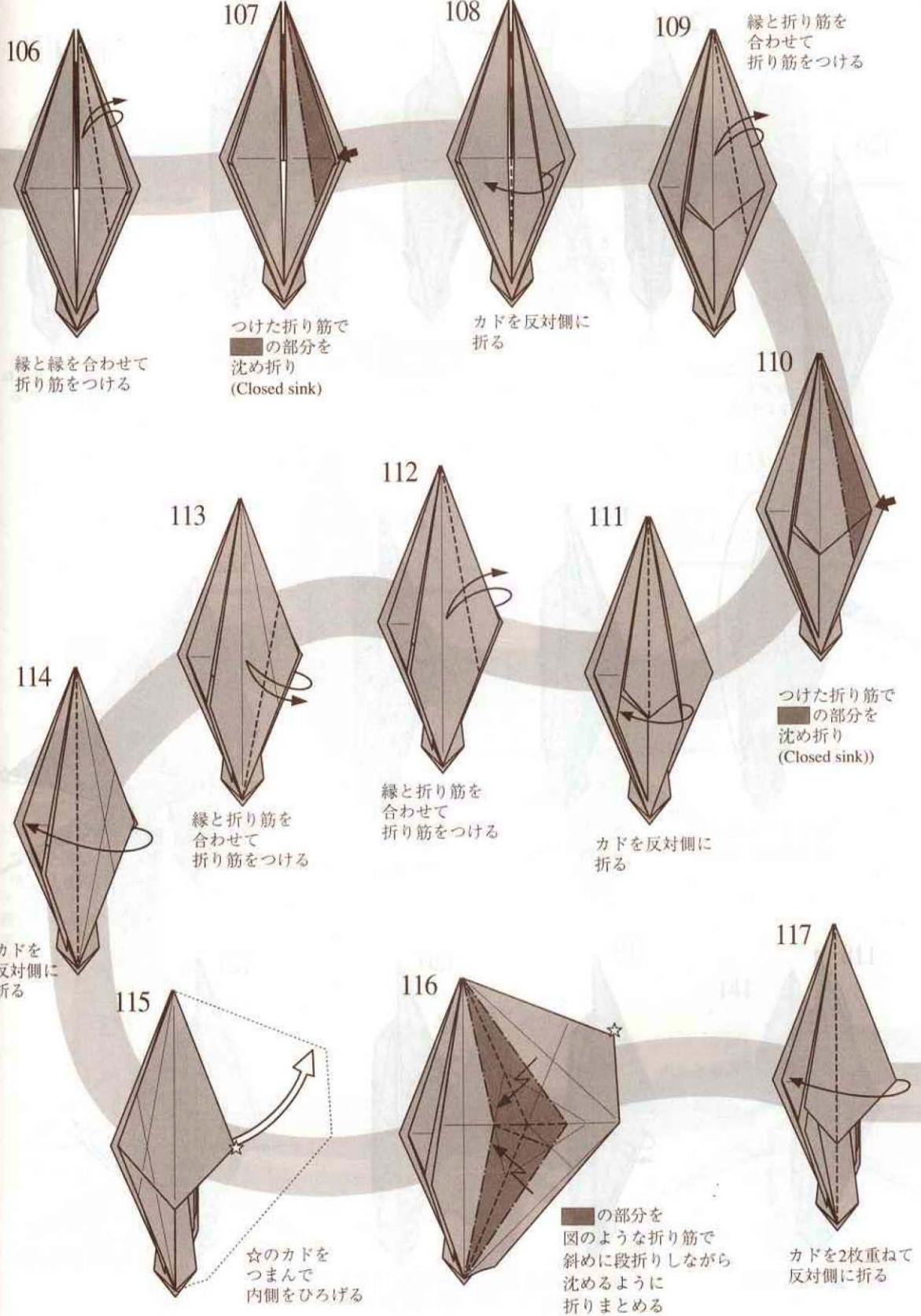
つけた折り筋で  
■の部分を  
沈め折り  
(open sink)

95

縁のところで  
折り筋をつける

96

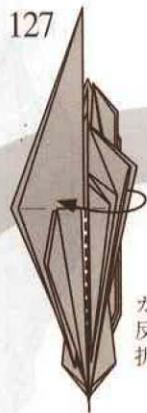
つけた折り筋で  
■の部分を  
沈め折り  
(open sink)



126

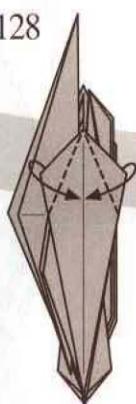


開くところで  
カドを  
下に折る



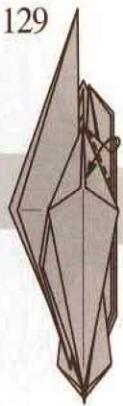
カドを  
反対側に  
折る

128



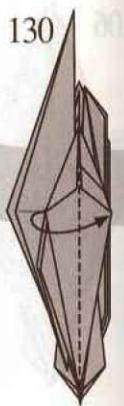
縁を折り筋に  
合わせて折る

129



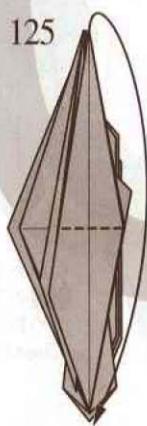
カドを縁に  
沿って折る

130



カドを3枚重ねて  
反対側に折る

125



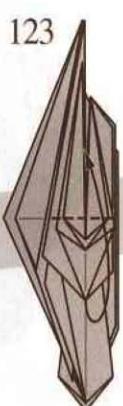
開くところで  
カドを  
折り下げる

124



カドを  
反対側に折る

123



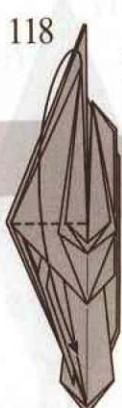
開くところで  
カドを  
折り上げる

122



■の部分を  
図のような折り筋で  
斜めに段折りしなが  
ら

118



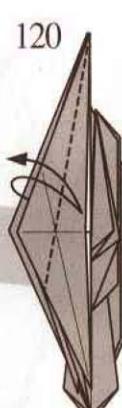
カドを  
折り下げる

119



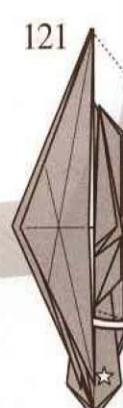
縁と縁を合わせて  
折り筋をつける

120

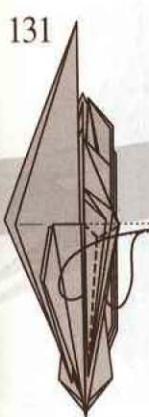


縁と縁を合わせて  
折り筋をつける

121



☆のカドを  
つまんで  
すき間をひろげる



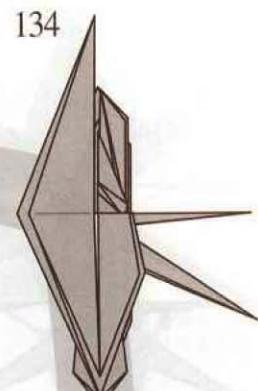
カドをつまむ  
ように折る



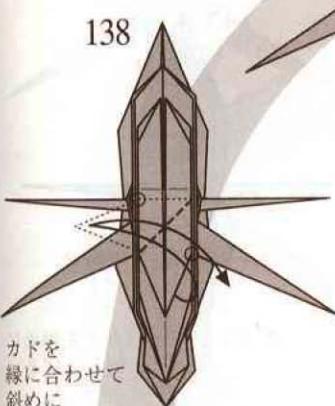
カドをつまみながら  
カドを反対側に折る



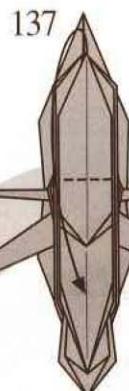
途中の図



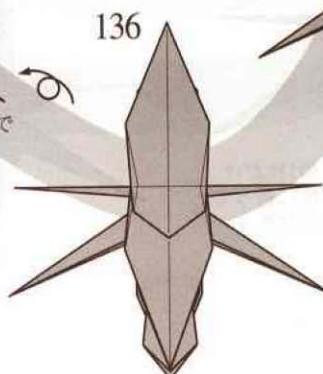
反対側も  
106~133と同じ



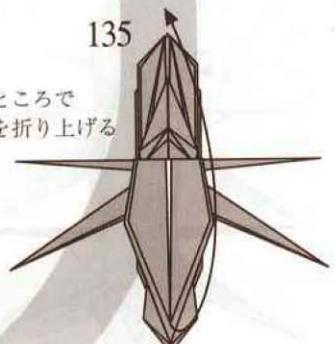
カドを  
縁に合わせて  
斜めに  
折り筋を  
つける



開くところで  
カドを  
下に折る

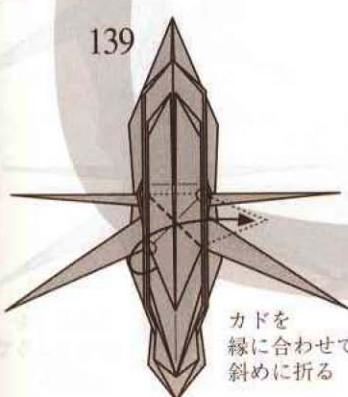


136

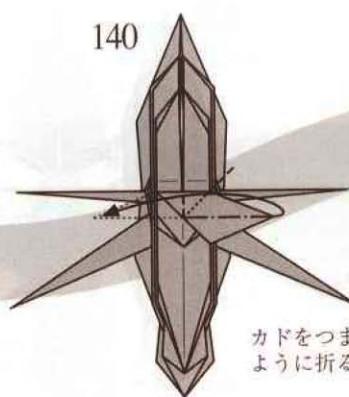


135

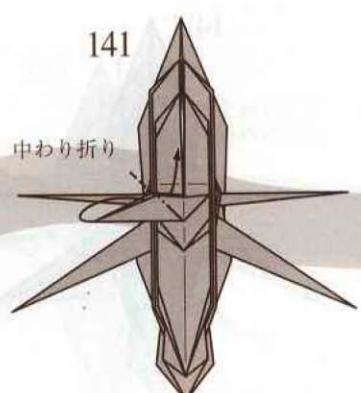
開くところで  
カドを折り上げる



カドを  
縁に合わせて  
斜めに折る

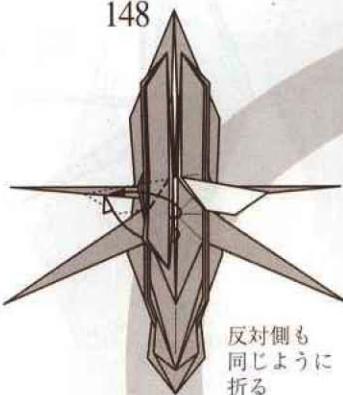


カドをつまむ  
ように折る

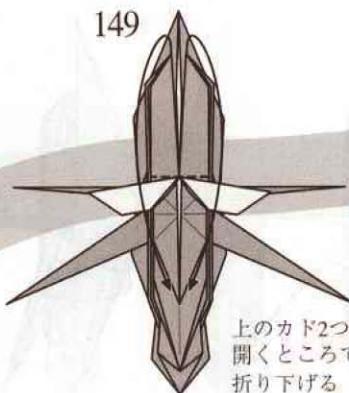


中わり折り

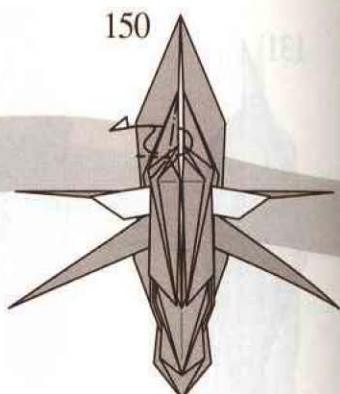
148



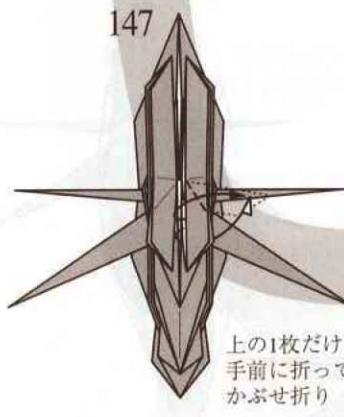
149



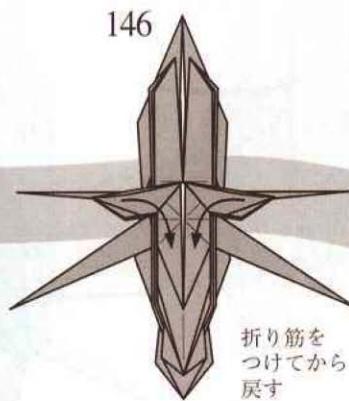
150



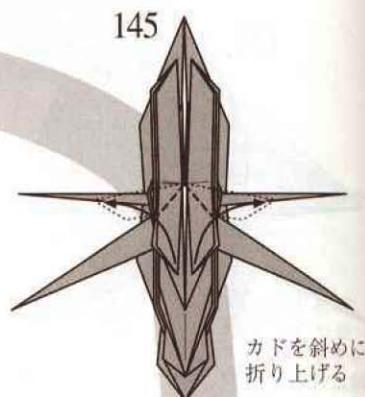
147



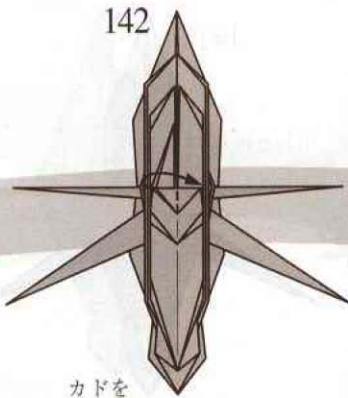
146



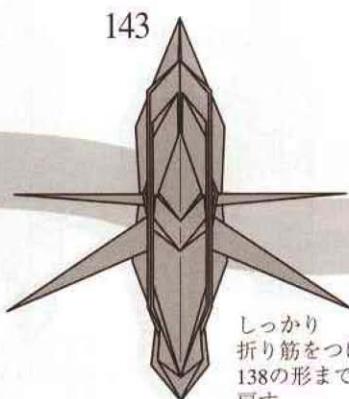
145



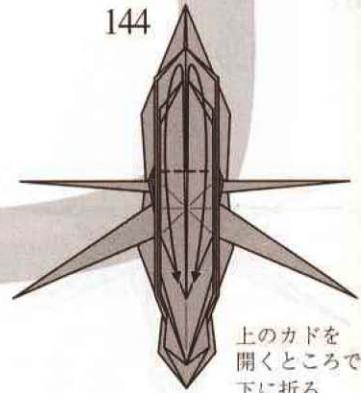
142



143

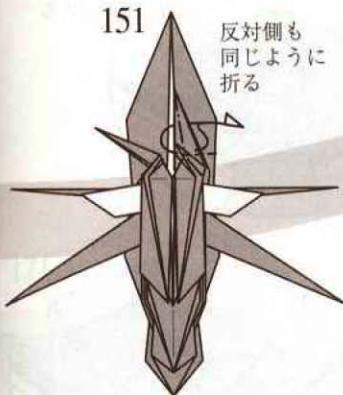


144



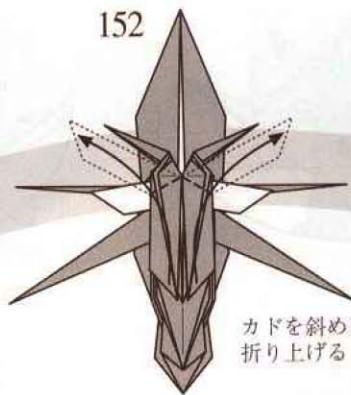
151

反対側も  
同じように  
折る



152

カドを斜めに  
折り上げる



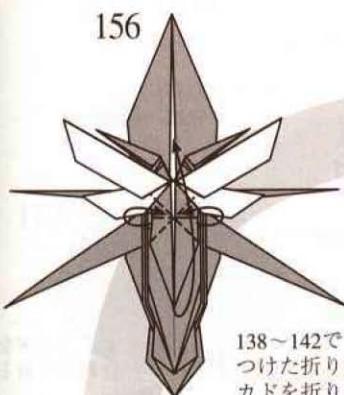
153

折り筋を  
つけてから  
戻す



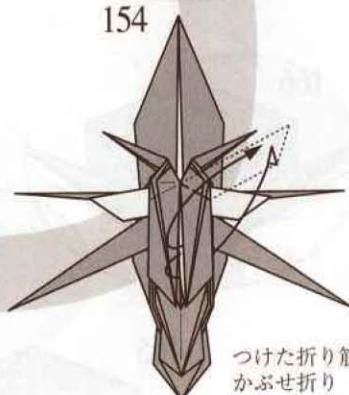
155

反対側も  
同じように  
折る

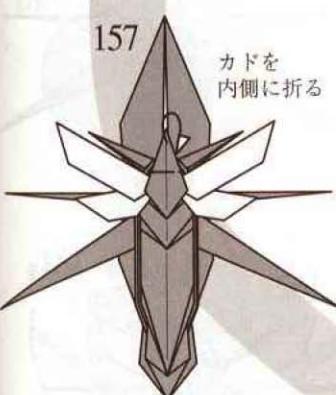


154

つけた折り筋で  
かぶせ折り



138~142で  
つけた折り筋で  
カドを折りまとめながら  
かぶせるように折る

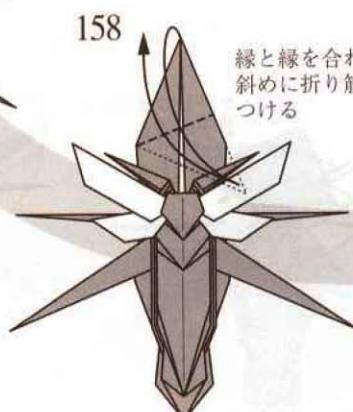


157

カドを  
内側に折る

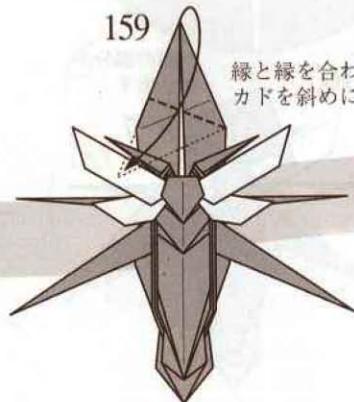
158

縁と縁を合わせて  
斜めに折り筋を  
つける

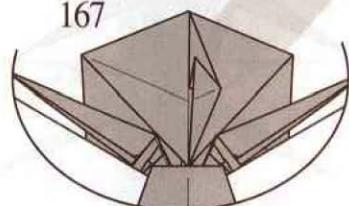
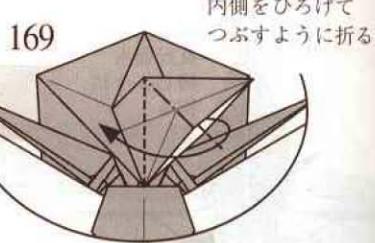
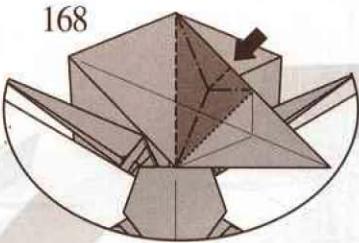


159

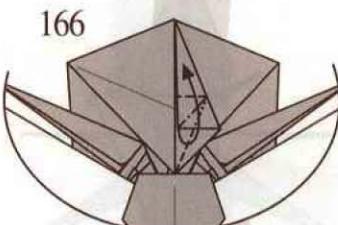
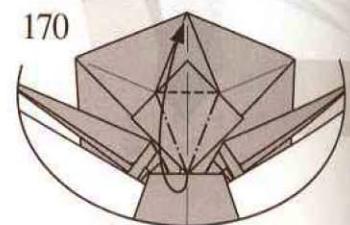
縁と縁を合わせて  
カドを斜めに折る



黒矢印の部分を  
押し込むように  
内側をひろげて  
■の部分を  
ついている折り筋で  
折りまとめる

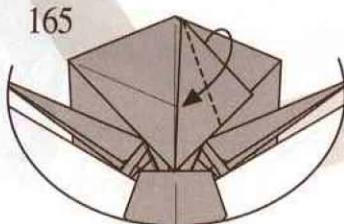
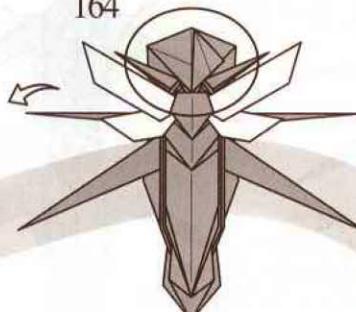


しっかりと  
折り筋をつけて  
163の形まで戻す



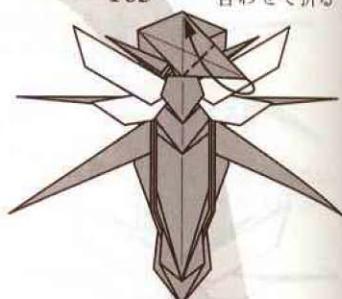
カドをつまむ  
ように折る

164



縁と縁を  
合わせて折る

163

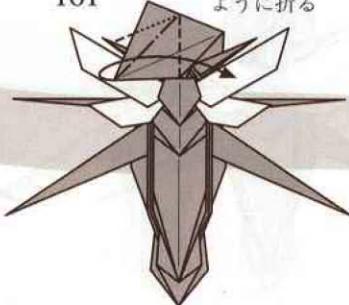


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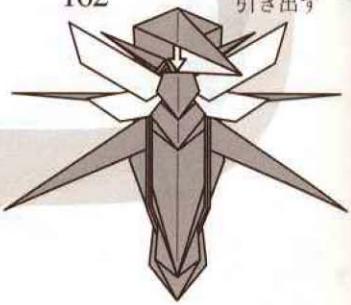
160 内側の部分を  
引き出す

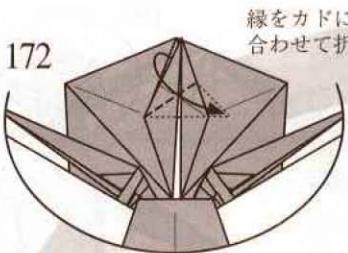


161 カドをつまむ  
ように折る

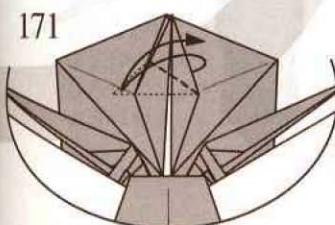


162 内側の部分を  
引き出す

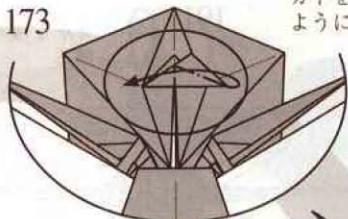




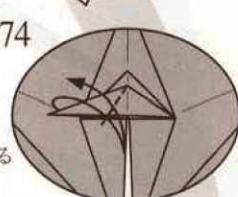
縁をカドに  
合わせて折る



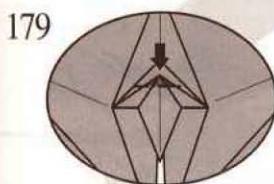
縁をカドに  
合わせて  
折り筋をつける



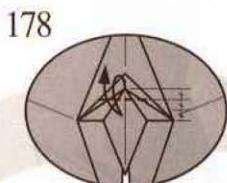
カドをつまむ  
ように折る



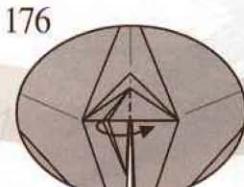
縁を折り筋に  
合わせて  
折り筋をつける



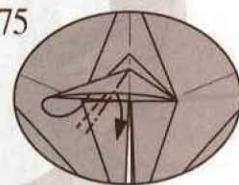
つけた折り筋で  
■の部分を  
沈め折り  
(open sink)



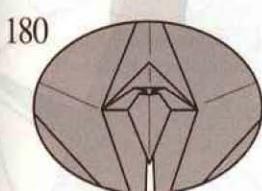
1/3のところで  
折り筋をつける



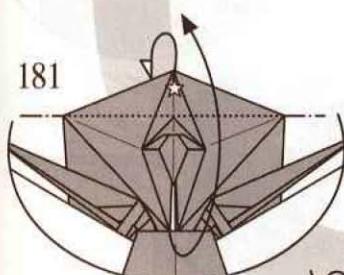
カドを反対側に  
折る



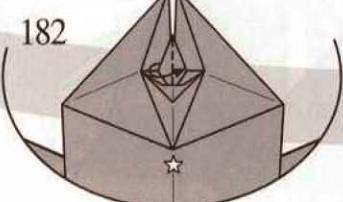
つけた折り筋で  
中わり折り



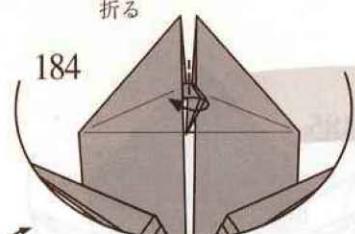
カドを反対側に  
折る



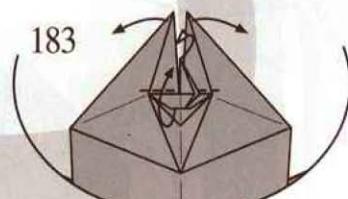
☆のカドを  
後ろへ折りながら  
手前のカドを  
折り上げる



カドを  
反対側に折る

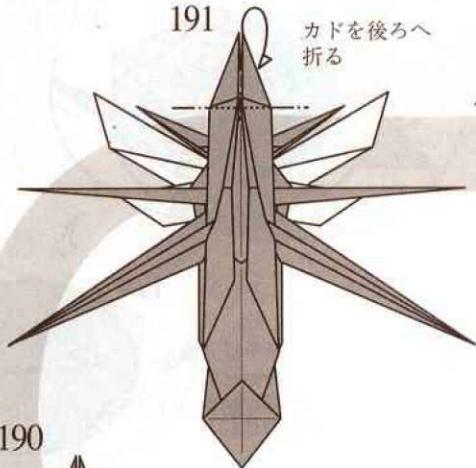


6

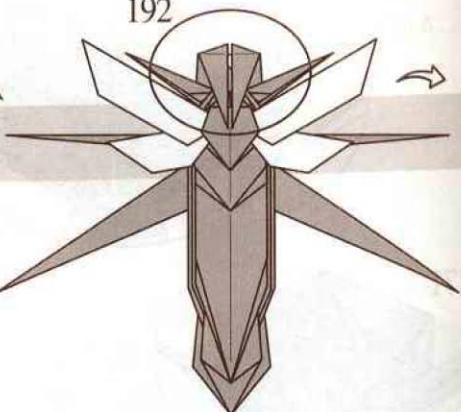


左右のカドをひろげて  
中心のカドをすき間に  
通しながら折り上げる

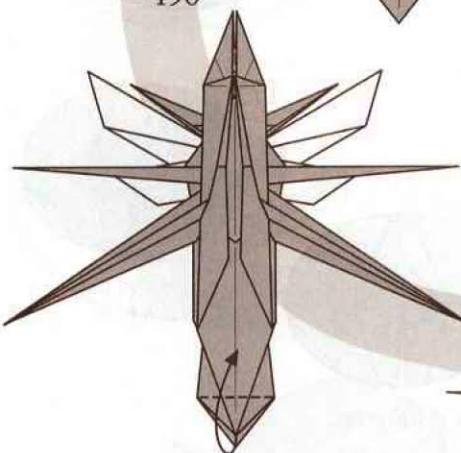
191 カドを後ろへ折る



192

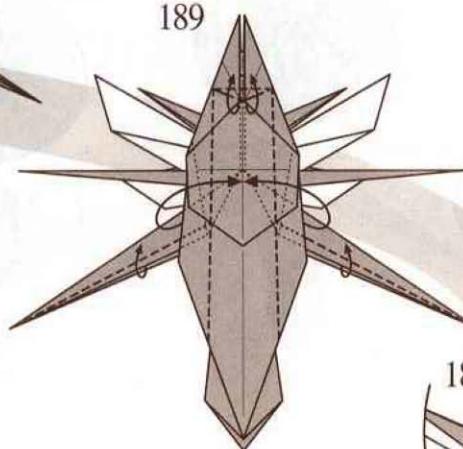


190

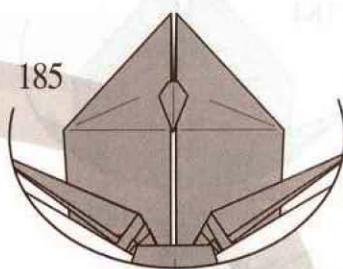


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189

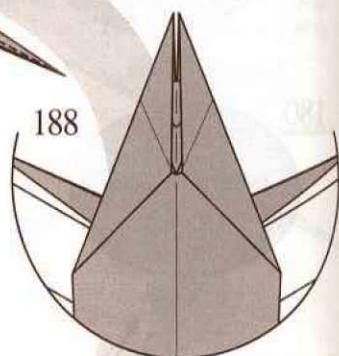


185

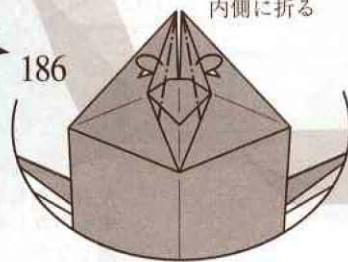


カドをつまむように  
折りながら連れて  
持ち上がる部分を  
引き寄せるように折る

188

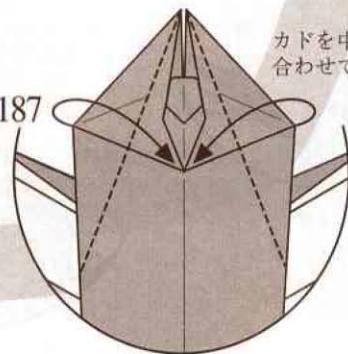


186

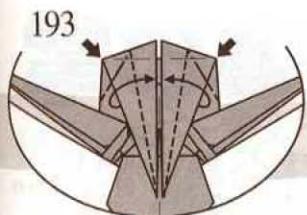


縁をを中心に  
合わせて  
内側に折る

187



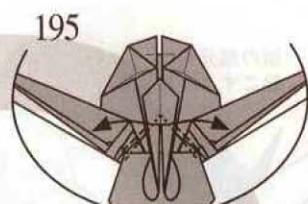
カドを中心いて  
折る



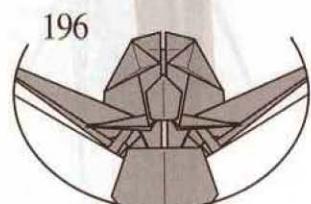
縁を中心に合わせて  
折りながら  
黒矢印の部分を  
ひろげてつぶす  
ように折る



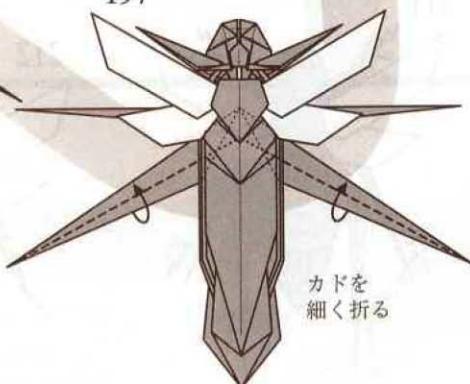
内側の部分を  
外に出す



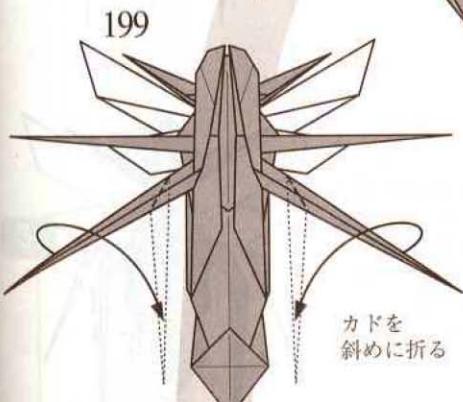
中わり折り



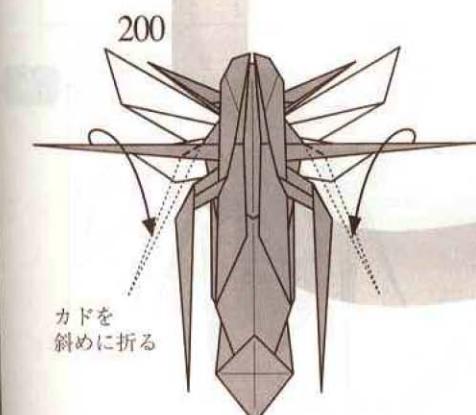
197



カドを  
細く折る

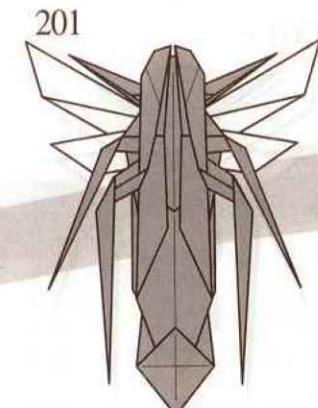


カドを  
斜めに折る

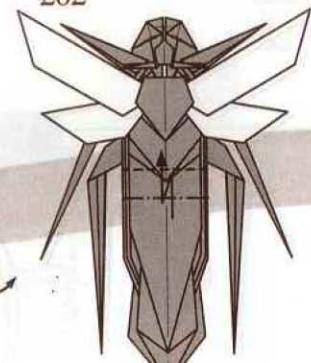


カドを  
斜めに折る

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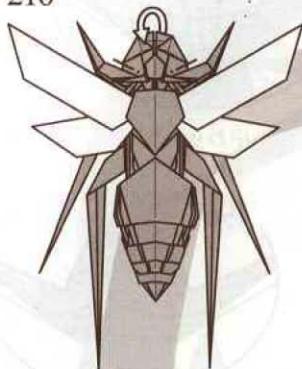
202



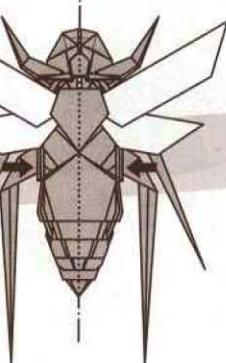
段折り

210

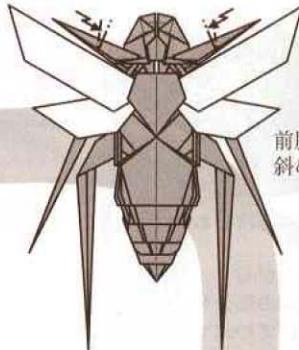
頭の部分を  
起こすようにする



209

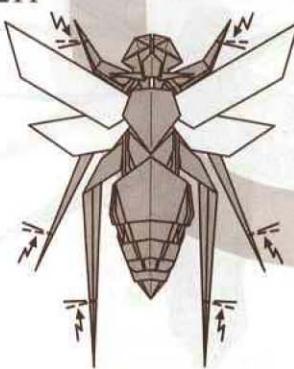


208



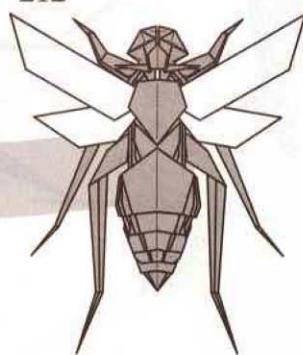
前脚を  
斜めに段折り

211



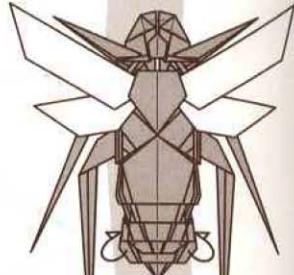
脚の先を  
斜めに段折り

212



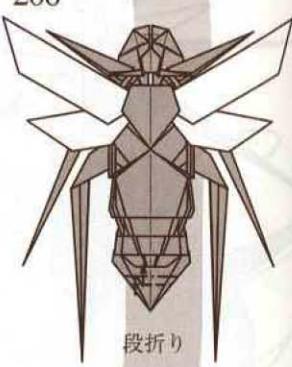
できあがり

207



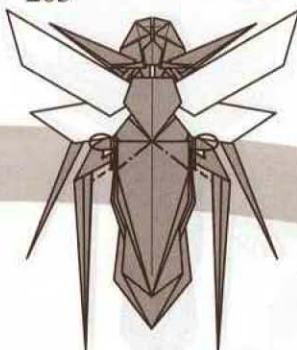
カドを  
内側に折る

206



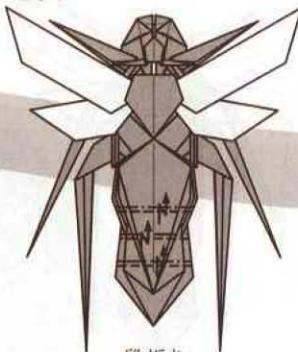
段折り

203



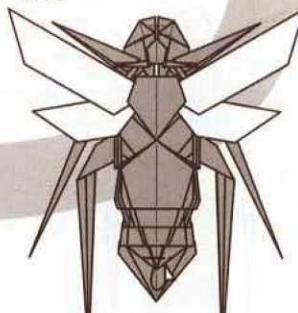
カドを  
内側に折る

204



段折り

205



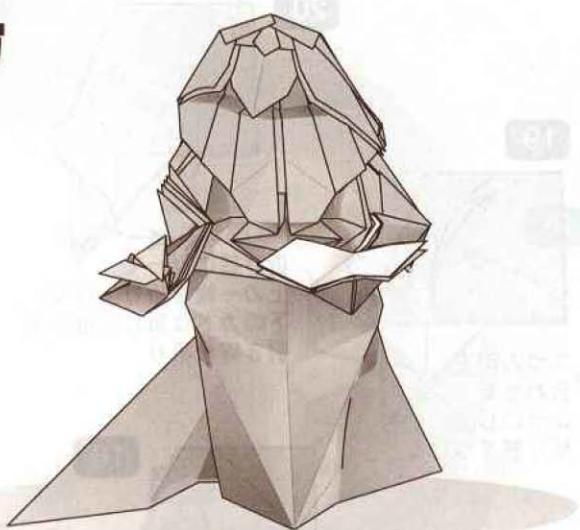
カドを  
内側に折る

# 掌の中の小鳥

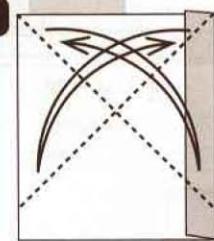
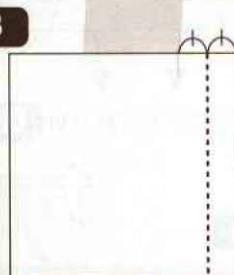
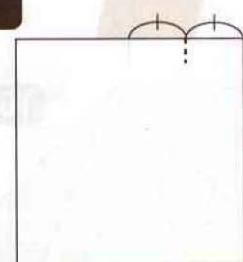
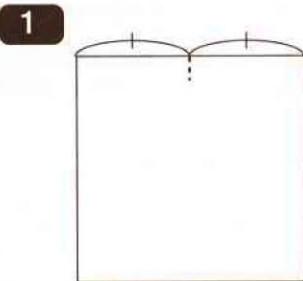
創作 2001/1/25  
作図 2003/8/3

作 / 図 渡辺 大

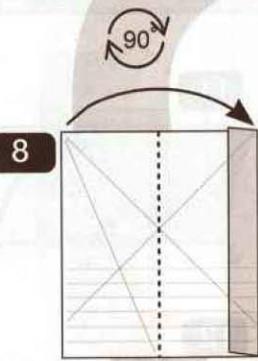
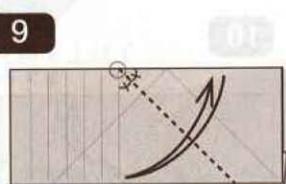
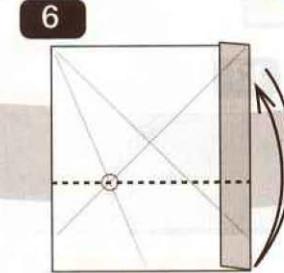
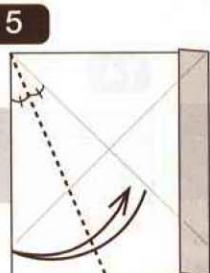
Model and Diagrams by *Dai Watanabe*



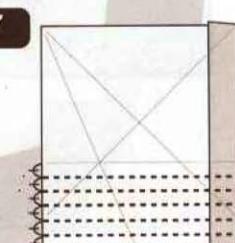
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ご参考までに...(1) / / / / / / / / / /  
1/8 という分割は近似的なものです。  
理想的な分割に比べると、紙の大きさに  
対して 1% 以下の誤差が生じます。  
この誤差が意味を持つのは本を折り出す  
時だけなのですが、この誤差を許せない  
方は理想的な分割を与える方法を追求  
してみてください。

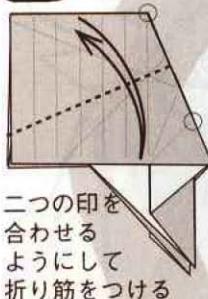


半分に折る



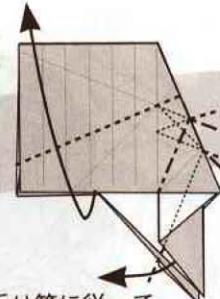
6 等分の折り線を  
つける

19



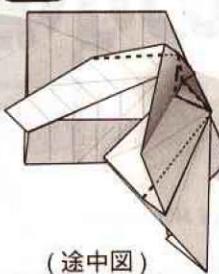
二つの印を  
合わせる  
ようにして  
折り筋をつける

20



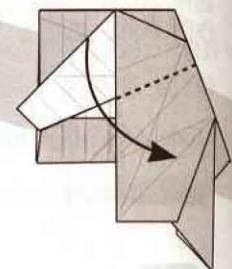
折り筋に従って  
上の一枚を折り上げる。  
下のカドは折りに従って  
引き寄せ折り

21

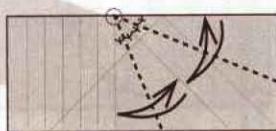


(途中図)

22



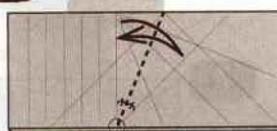
10



11



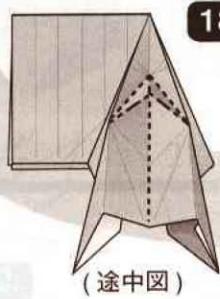
12



13

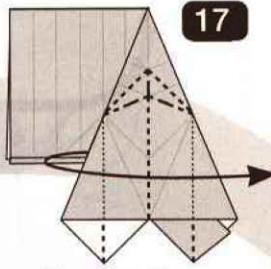


18



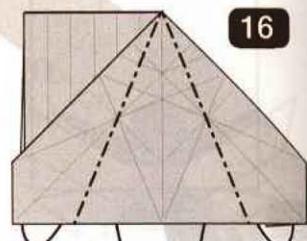
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17



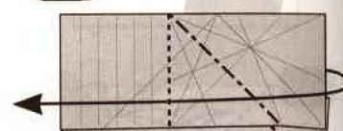
付いている  
折り線で  
折りたたむ

16



両側とも中割り折り

15

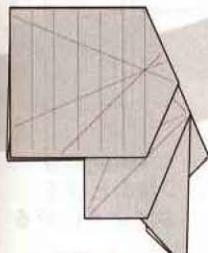


大きく折り開く

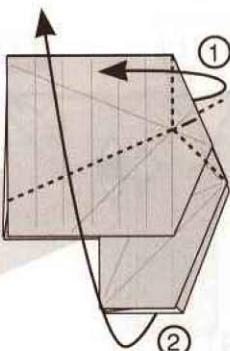
14



23

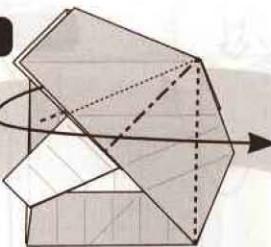
反対側も  
同じに折る

24



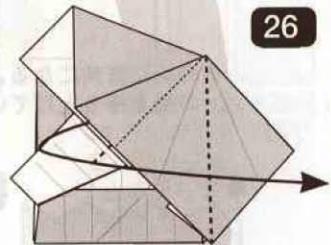
1. 上から2枚目の  
ヒダで折り開く  
2. 一番下だけ残して  
付いている折り線で  
折り上げる

25



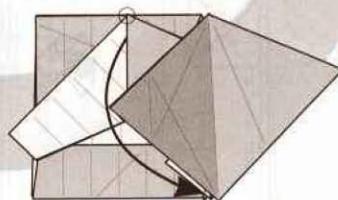
上の1枚を折り開く

26

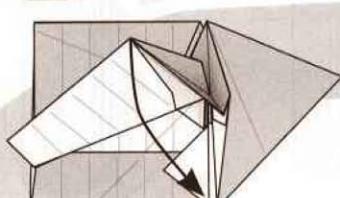


次の1枚も折り開く

27

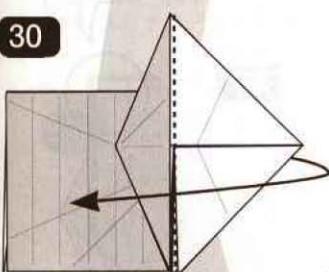
色の濃い部分を持ち上げて  
○印のついたカドを  
引き下ろす

28



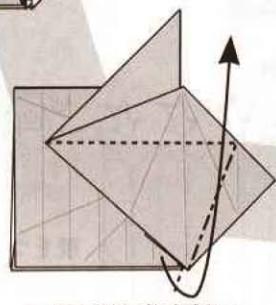
(途中図)

30



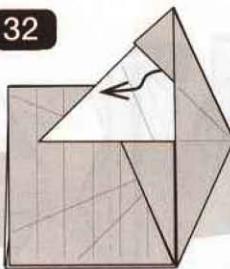
花弁折り

31

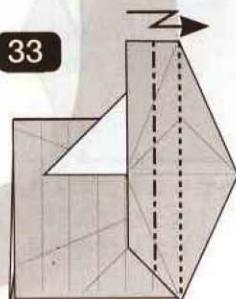


こちら側も花弁折り

32

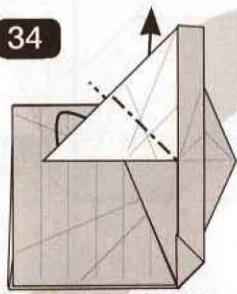
中に折り込まれている  
紙を引き出す

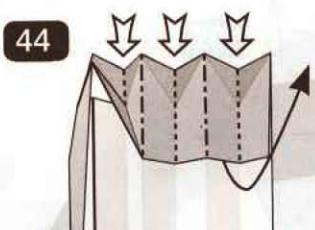
33



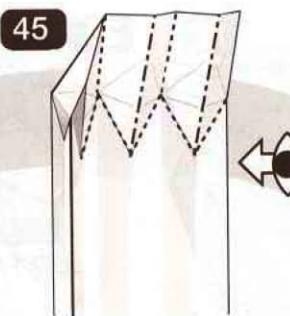
開いてつぶすように折る

34

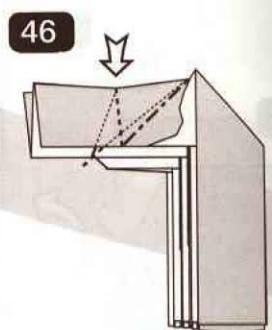




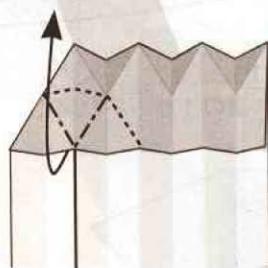
下の紙に直角になるように  
上の紙を持ち上げていく



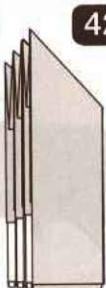
(途中図)



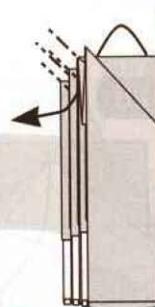
2つ目のヒダを  
つぶすように折る



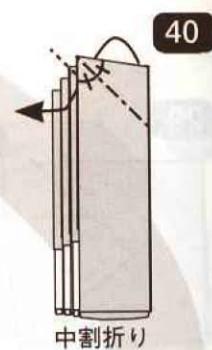
43



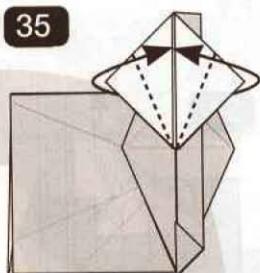
42



41



40



35

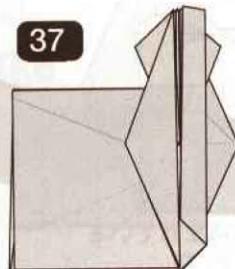
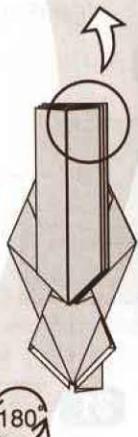
残り二つのヒダも  
同様に折る



36

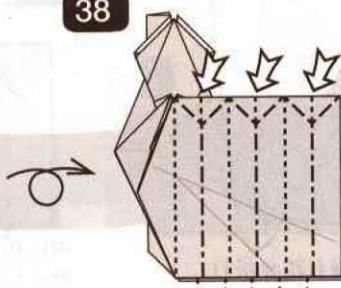
後ろに隠れている  
カドを手前に  
引き出す

39



37

38

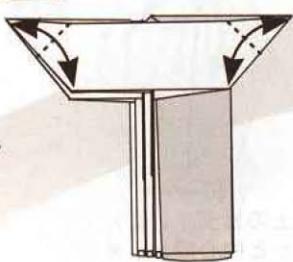


稜をつぶすように  
しながら段折り

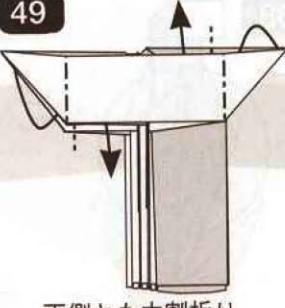
47



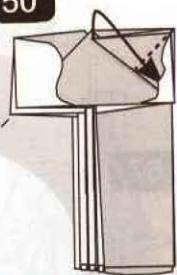
48



49



50

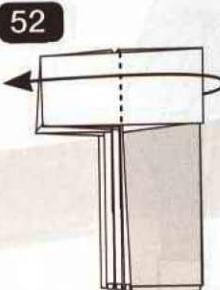


両側とも中割折り  
左右で折り込む  
向きが違います

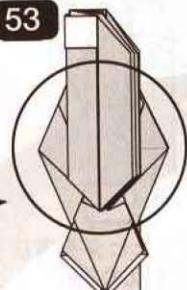
(一番上の一枚を透視)  
48でつけた折り筋で  
奥に折り込む  
(止め折りです)

51

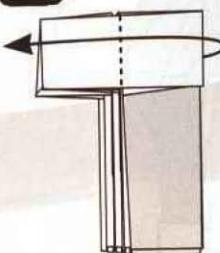
51



53

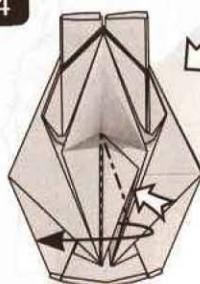


52



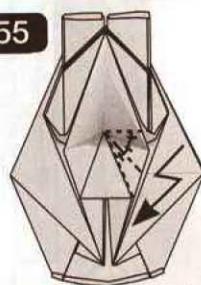
(これも透視です)  
今度は向こう側に  
折り込む

54



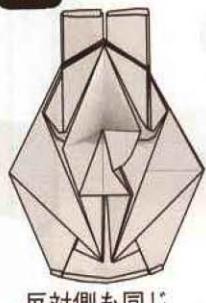
(上のカドを持ち上げた状態)  
山をつぶすように折る

55



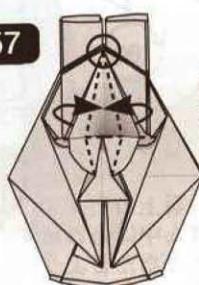
一枚後ろのヒダを  
真ん中に引き寄せ  
ながら段折り

56



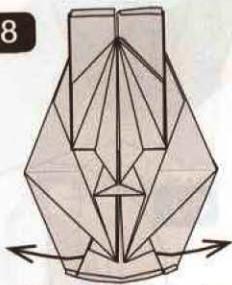
反対側も同じ

57



一番上のヒダを  
真ん中に合わせながら  
○印のついたカドを  
目一杯折り上げる

58

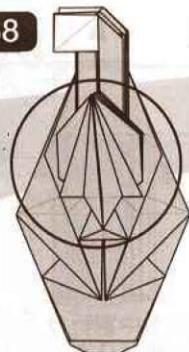


後ろに巻き込んである  
紙を引き出す

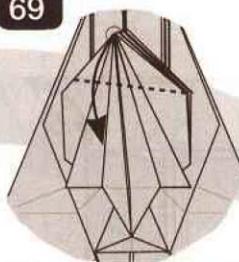
67



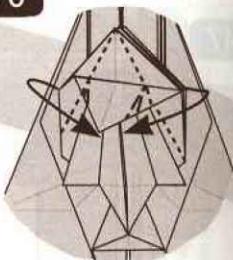
68



69



70

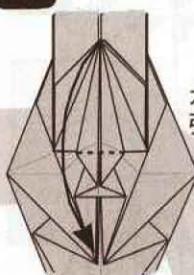


一番上のヒダだけ折ります。  
ちょっと中心線から外れて  
いるのに注意してください。

顔の輪郭を取りながら  
引き寄せ折り

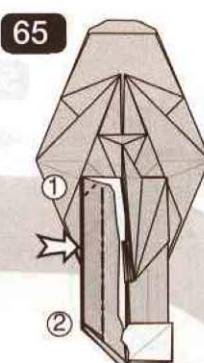
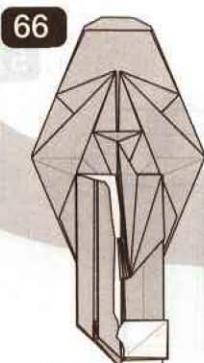
反対側も 63~66 と同じ  
(2 の open sink は  
無視してください)

59

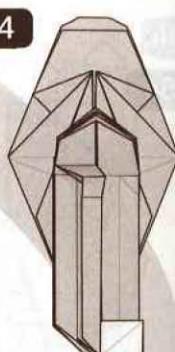


カドをまとめて  
引き下ろす

下のヒダも同じ



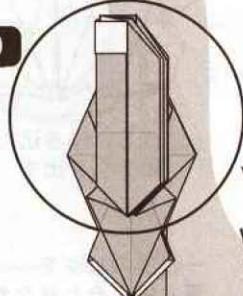
64



(64 で折ったヒダを透視)  
次のヒダを沈め折り  
(1 は closed sink,  
2 は open sink)

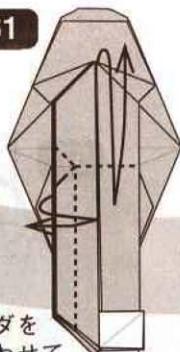
(途中図)

60

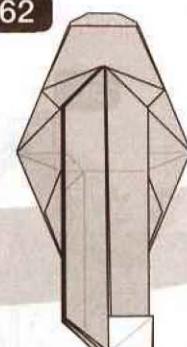


一番上のヒダを  
真ん中に合わせて  
折りたたむようにして  
折り筋をつける

61

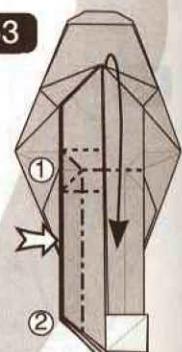


62



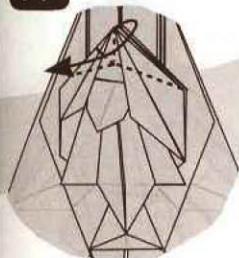
下2枚と左側のヒダも  
同様の折り筋をつける

63



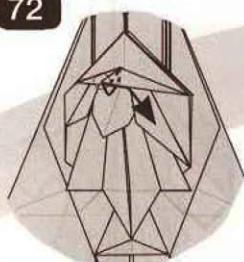
1 と 2 を沈め折り  
(open sink) しながら  
上のカドを畳みこむ

71



カドを一枚だけ  
つまみ折り

72

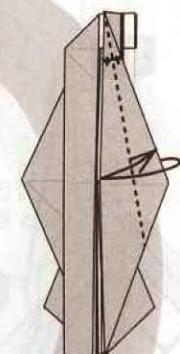


つまんでできたカドを  
開いてつぶすように折る

73



74



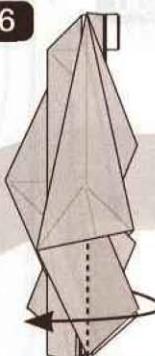
75

75



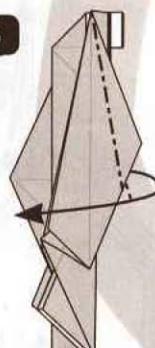
開いてつぶす  
ように折る

76



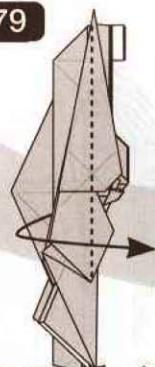
中のヒダを1枚だけ  
折り開く

78



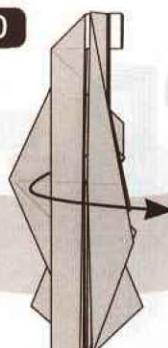
次のヒダも開いて  
つぶすように折る  
(引っかかるところが  
あります。  
次図を参考にして  
カドをつぶしながら  
折ってください)

79



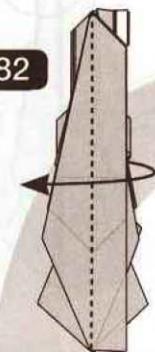
74~78で折ったヒダ  
(3枚)を元に戻す

80



左側のヒダを  
1枚だけ折り開く

82



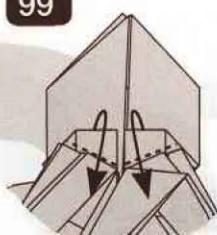
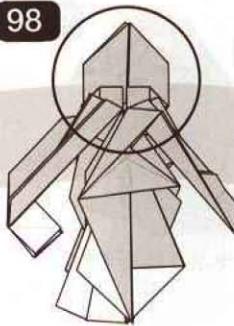
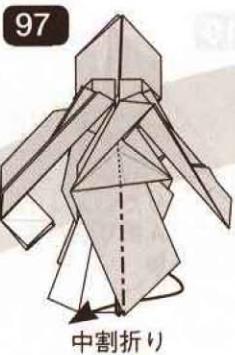
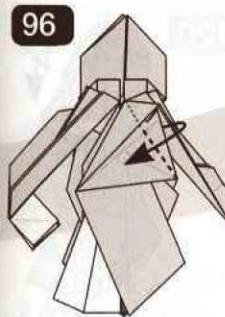
上の1枚だけ折る

81

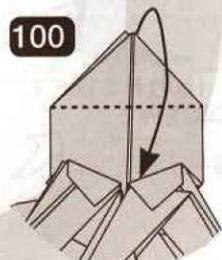


左側も74~79と  
同じように折る

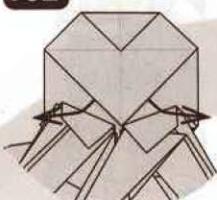




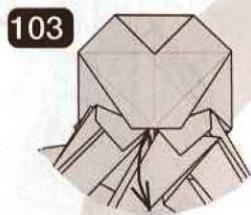
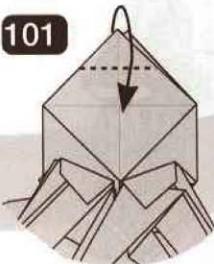
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102

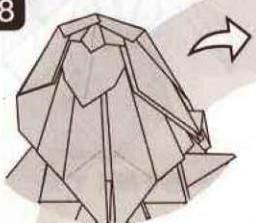


101

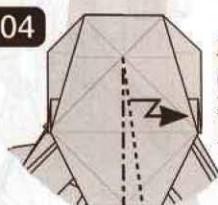


中の紙をずらすように  
して引き出す

108

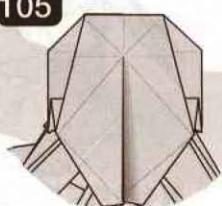


104

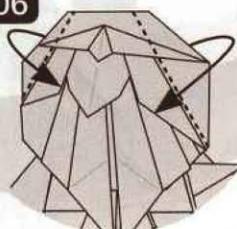


段折り  
(立体化します)  
裏でてきとうに  
止め折り

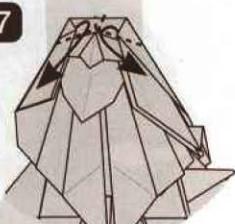
105



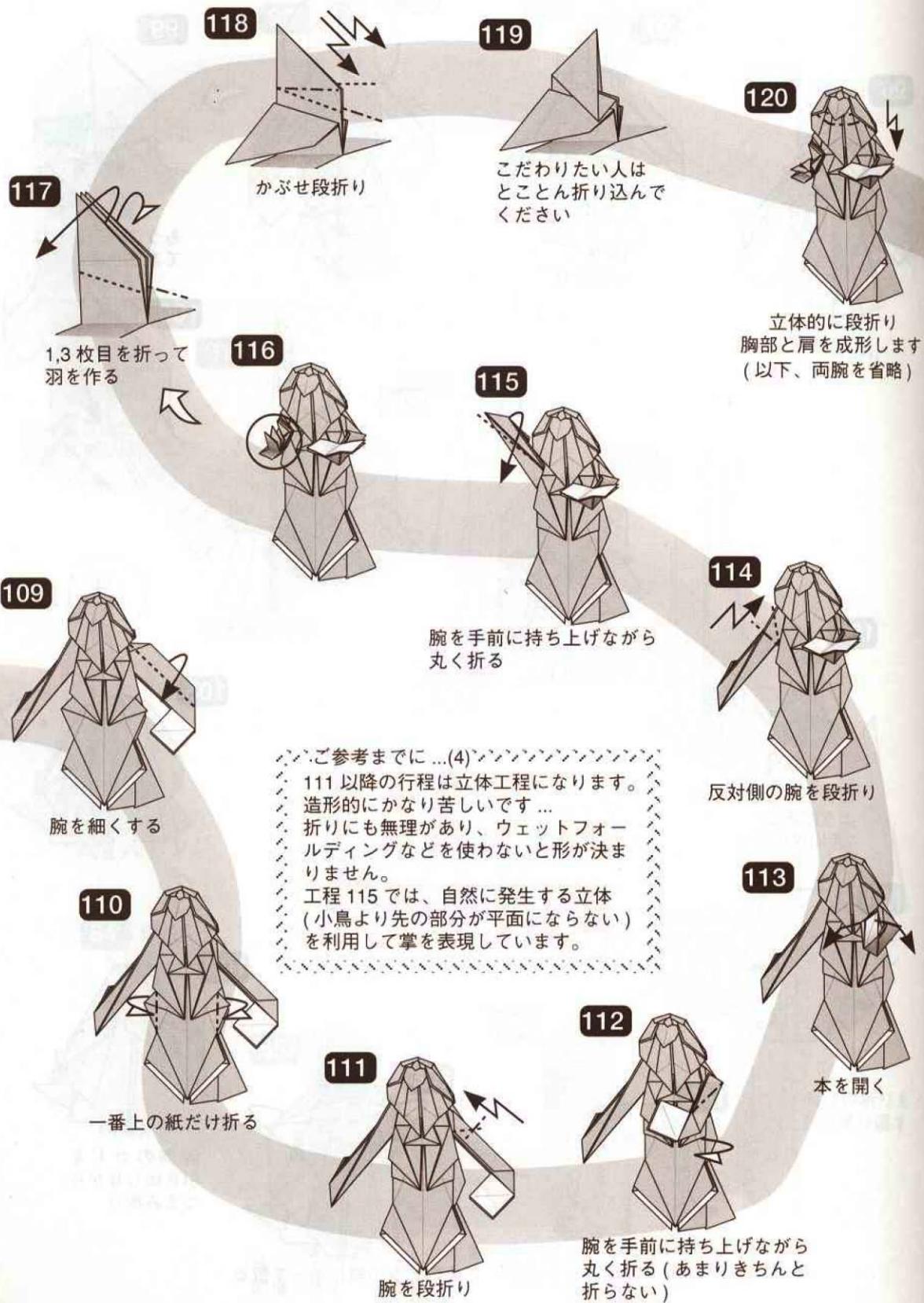
106



107

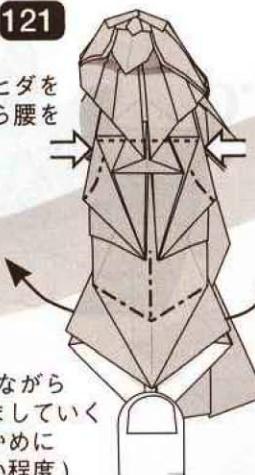


両側のカドを  
引き出しながら  
つまみ折り



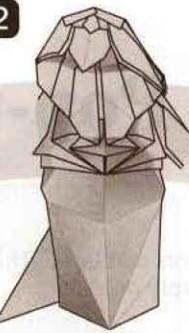
121

下に隠れているヒダをカーブさせながら腰を成形する

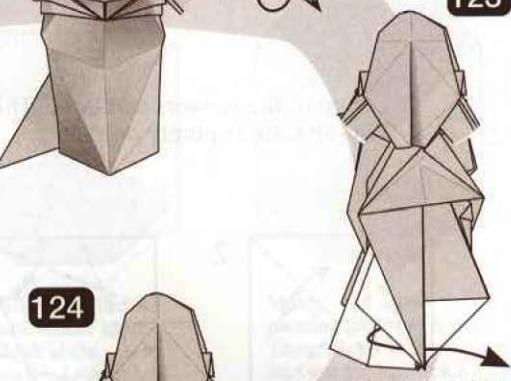


中に指を入れながらスカートを膨らましていく  
折りは柔らかめに(線をつない程度)

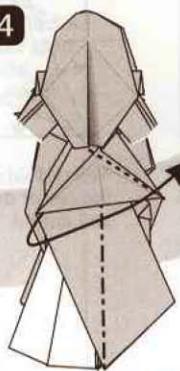
122



123

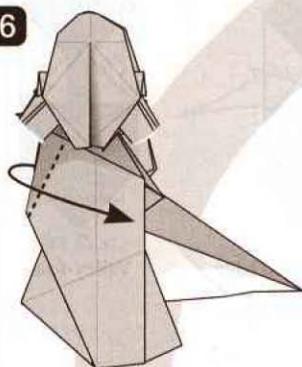


124



スカート部分を持ち上げていく

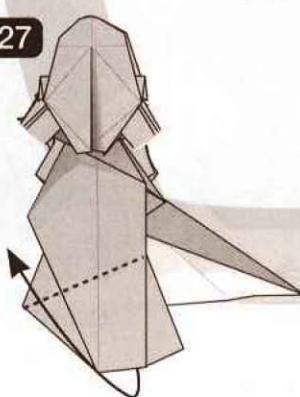
126



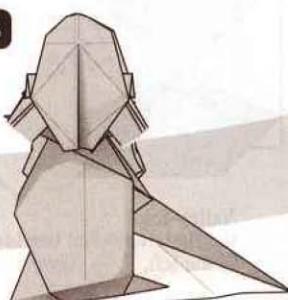
引き寄せ折り

ご参考までに ... (5) / / / / / / / /  
スカートの仕上げ(膨らまし方、紙の重なった部分の処理など)は省略しています。  
力尽きた、というのが本音ですが、私自身、未だ同じ物を折ったことが無いのです。  
試行錯誤して自分の好みを探してみてください。

127



128



スカートを膨らませながら形を整える

129

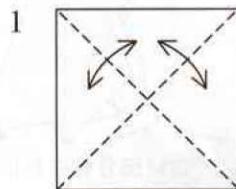
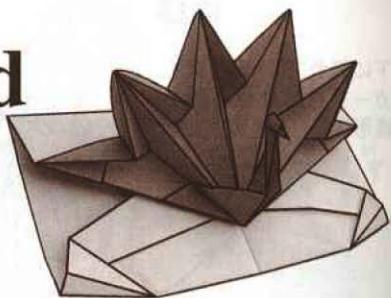


できあがり

# Peacock Pop-up Card

by Jeremy Shafer ©2001

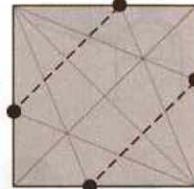
Let go of the scissors and tape. This Peacock Pop-up Card is purely origami.



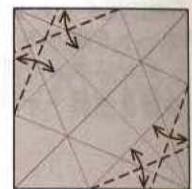
Valley-fold and unfold diagonally both ways.



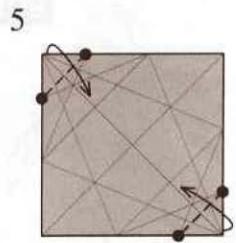
Valley-fold each edges to the center diagonal crease and unfold. Turn over.



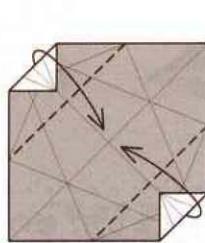
Valley-fold and unfold connecting the black dots as shown.



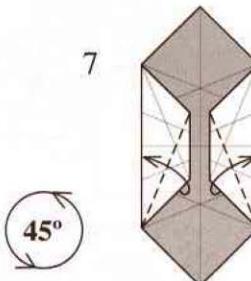
Valley-fold and unfold.



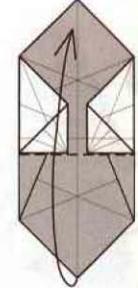
Valley-fold and unfold connecting the black dots.



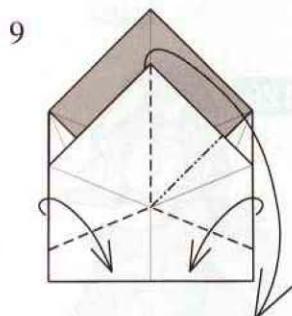
Valley-fold on the existing creases.



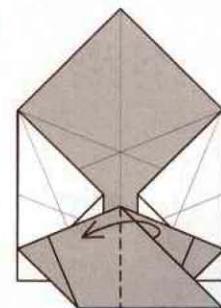
Valley-fold edge to edge letting the two hidden corners swing into view.



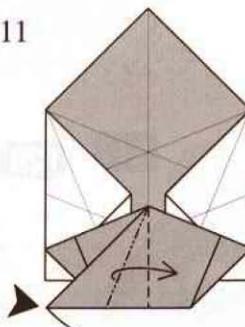
Valley-fold.



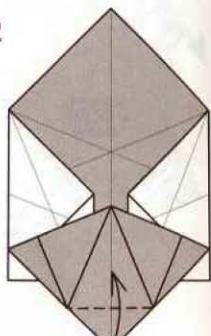
Rabbit-ear flattening the flap rightward. The valleys are on existing creases.



Valley-fold the flap over to the left.

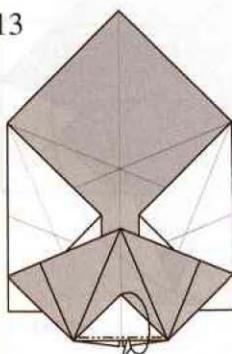


Squash!



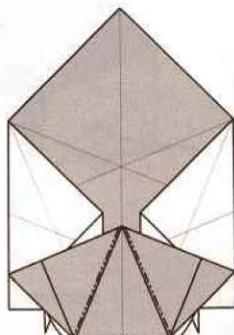
Valley-fold.

13



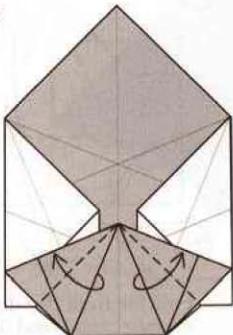
Unfold the flap  
and insert it into  
the pocket.

14



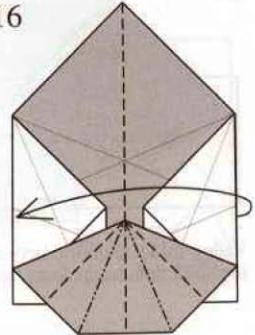
Mountain-fold,  
swinging the two  
hidden flaps apart.

15



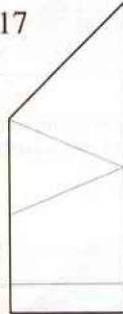
Valley-fold the  
flaps further apart.  
Think about  
Jacob's Ladder.

16



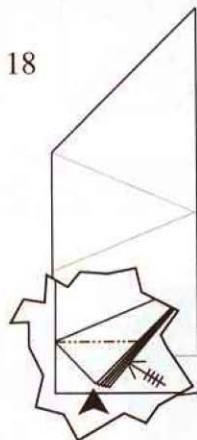
Valley-fold in half  
pleating the front layer.  
These pleats will  
become the peacock's  
tail feathers.

17



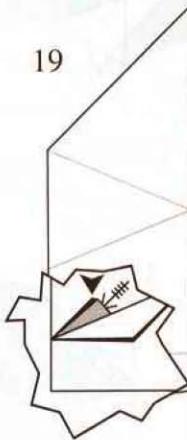
Like this.

18



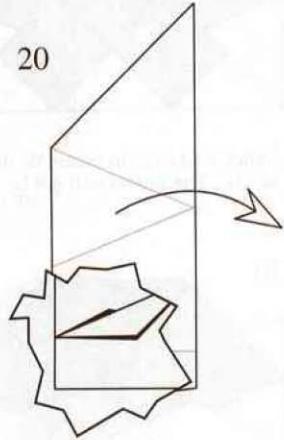
Tear-away view.  
Reverse-fold the central  
five points, starting with  
the middle point. The  
folds are horizontal.

19



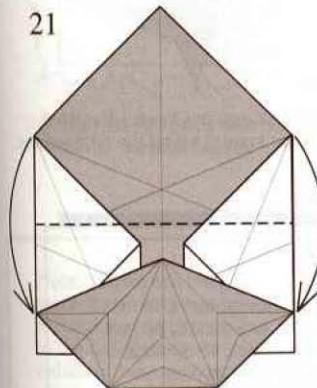
Reverse-fold the  
five flaps back  
the other way.

20



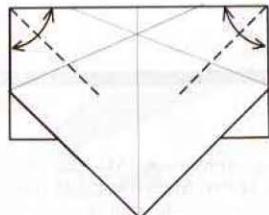
Open the card and  
flatten the tail feathers  
bringing the model  
back to how it looked  
in step 16

21



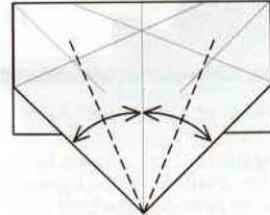
Valley-fold.

22



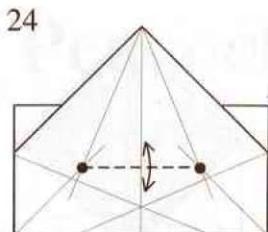
Valley-fold and unfold  
on the front layer.

23

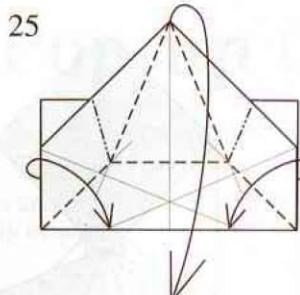


Valley-fold and unfold on the front layer.  
These creases should extend at least to  
the creases made in the previous step.  
Rotate the model 180°.

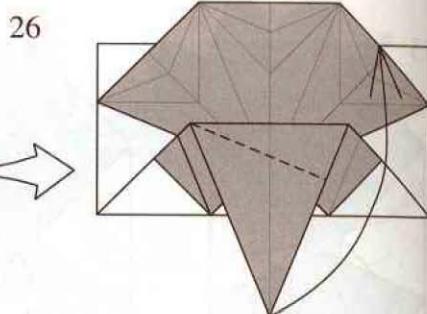
180°



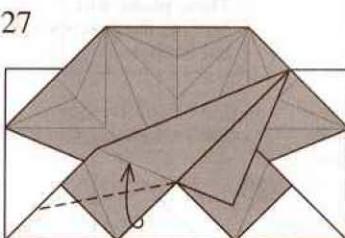
Valley-fold and unfold between the black dots on the front layer.



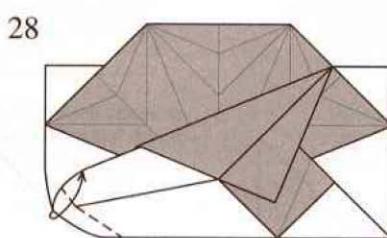
Fold the front flap down on the existing creases and flatten. The two mountain folds get formed in the flattening.



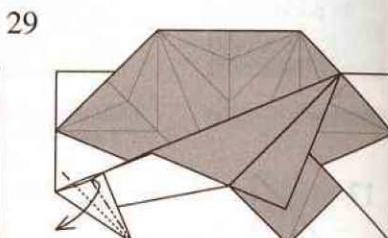
Valley-fold the flap upward and to the right



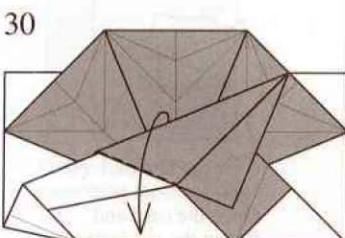
Valley-fold edge-to-crease on the front layers. The model will not lie flat.



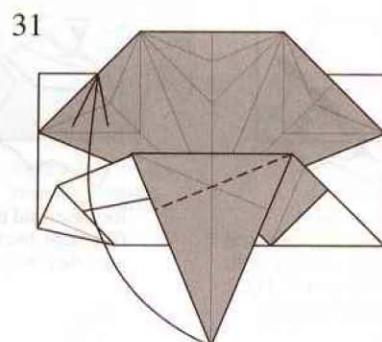
Valley-fold the corner on to indicated edge and flatten.



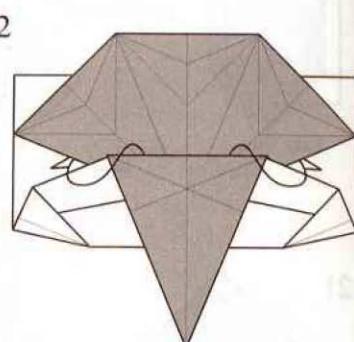
Pull the front edge downward to the left as far as it will go and squash.



I see the folds made in steps 27-30 as the shadow of the peacock's head and neck, or perhaps its alter ego. Valley-fold the flap downward.



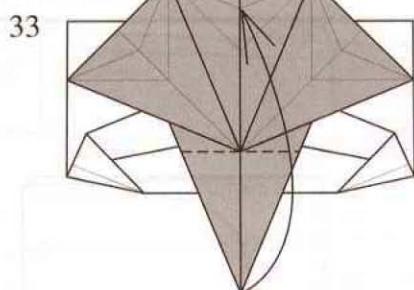
Repeat steps 26-30.



Another alter ego has been identified. Put the front layers behind the tail feathers.

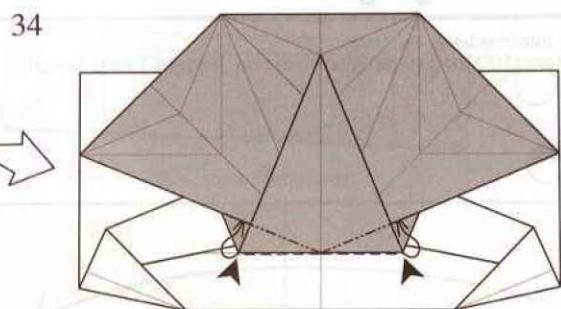
#### Thoughts Behind the Folds.

Folding origami pop-up cards has been an ongoing exploration. My idea is that if you can incorporate a model into a pop-up, it will have much more appeal and utility. Sure you could just paste a model into a card, but we origami purists must do it the hard way. This particular pop-up of a peacock has undergone extensive evolution. The original version was quite rough but nevertheless I decided to teach it at the OrigamiUSA Convention 2000 on the assumption that I would be able to refine it in time. But it was much harder than I had anticipated and I found myself banging my head on the problem all the way to New York and even while teaching the class itself, which, just my luck, was soldout. I told everyone I would find a nicer version, diagram it and put it in BARF. So now, more than a year later, here it is.



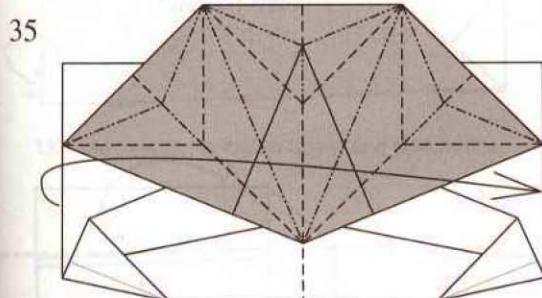
33

Valley-fold the flap upward.



34

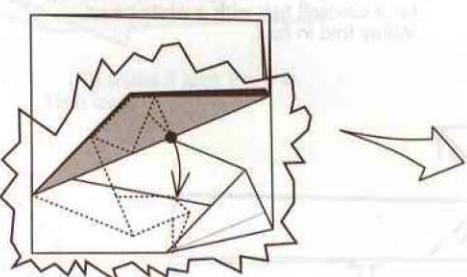
Reverse-fold inserting the paper into the pockets.



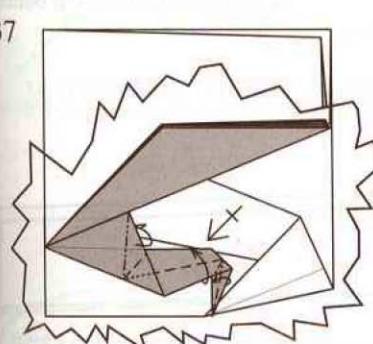
35

Fold the card in half, refolding the tail feathers as they were in step 20, but this time make the folds go through the top flap too as if it were part of the same layer.

36

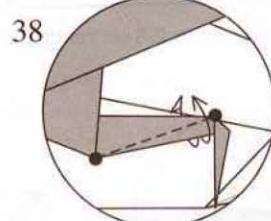


Cut-away view. Pull the peacock's beak downward.



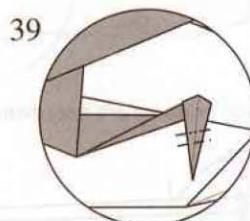
37

Narrow the neck with swivel folds. Repeat behind.



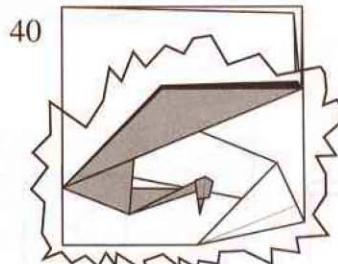
38

Outside-reverse-fold the neck. This fold extends between black dots on both sides. Let the folds on the head open and redefine themselves.



39

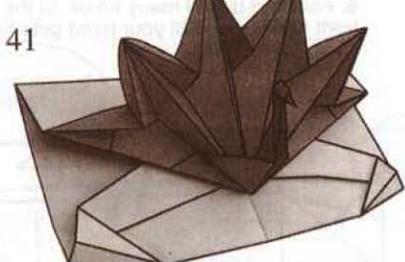
Crimp to form the beak.



40

Note: There are many much more intricate pleat patterns that can be applied to the tail feathers to enhance their appearance.

The Peacock Card is complete. Open it and so the peacock can strut its stuff.



41

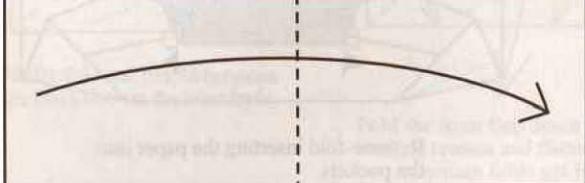
The Peacock is open, single, available, and looking to impress some hot peachicks.

## ♪ The Singing Fish ♪

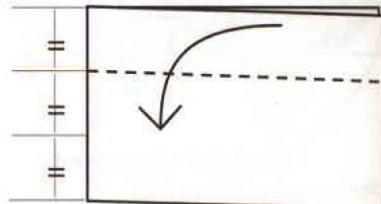
© Gilad Aharoni (Israel) 2002

Low Intermediate

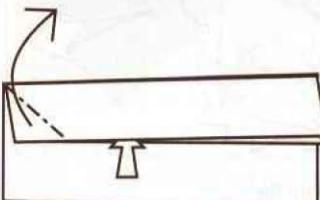
A 24cm (10") long rectangle makes an 11cm (4") long model.

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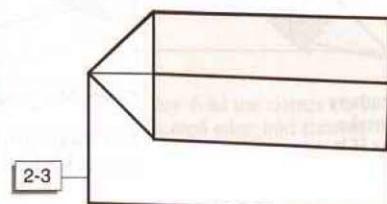
1. Start with a rectangle - approx 1X3, a \$ bill will work nicely. Colored side up for a colored fish with a white head. Valley fold in half.



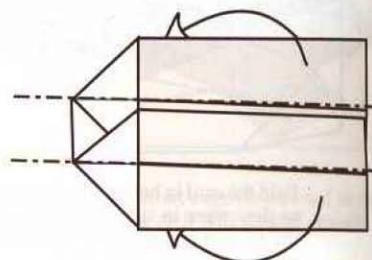
2. Fold a 1/3 down.



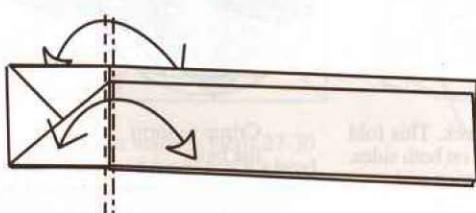
3. Squash fold.



4. Repeat steps 2-3 on the bottom.



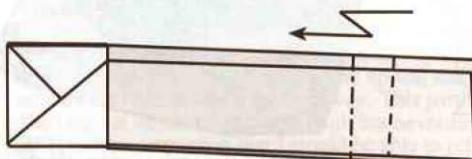
5. Mountain fold top and bottom.



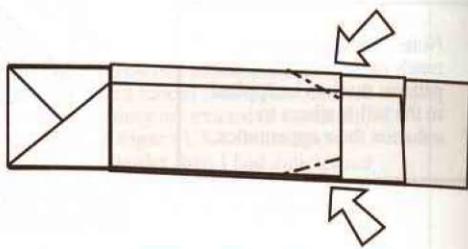
6. Fold and unfold many times, to the front and back, until your hand gets tired.



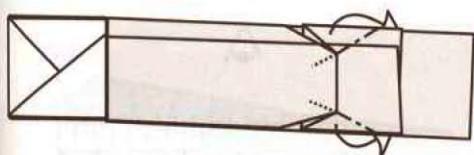
7. Fold and unfold many times, to the front and back, until your hand starts to really hurt. Crease very firmly.



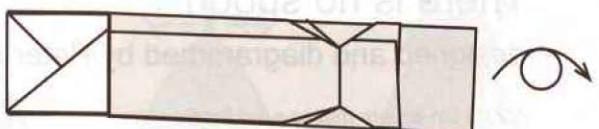
8. Pleat top layer only (no landmarks).



9. Inside reverse fold the corners.

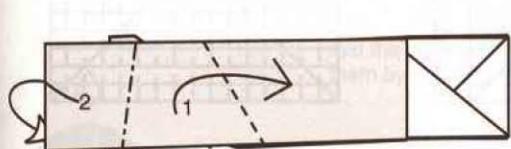


10. Mountain fold corners behind.

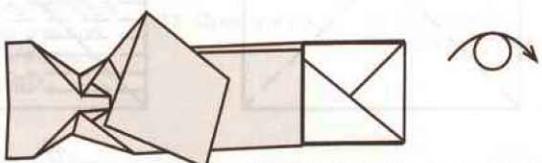
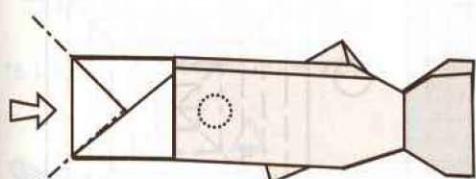


11. The tail is done. Turn over.

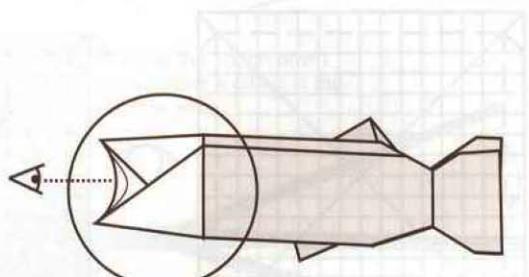
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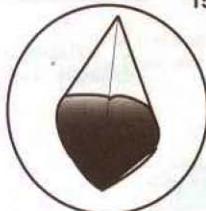
12. Fold to taste, to create upper and bottom fins.

To make it look like this.  
Turn over.

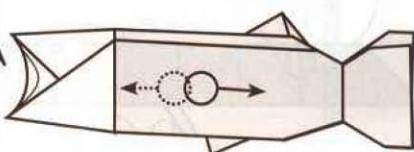
14. Gently push in the mouth - to make it 3-D. It helps if you place your finger inside.



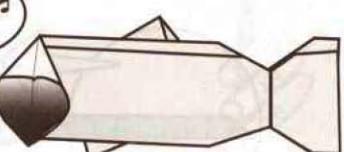
15. Views from the side and from the front.



Here's a little song I wrote;  
you might want to sing it  
note-for-note...

16. Place your thumb in the front, and  
your finger in the back, and slide in opposite  
directions...

Don't worry, ♫  
Be happy!

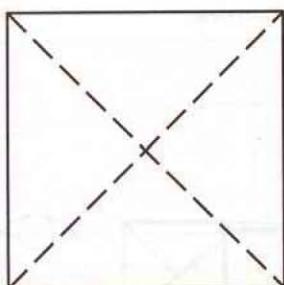


17. To make the fish sing!

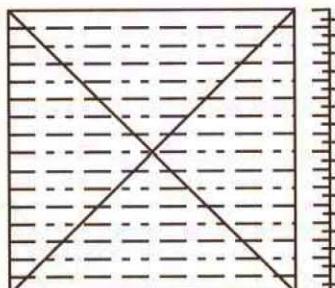
# "There is no spoon"

designed and diagrammed by Peter Farina

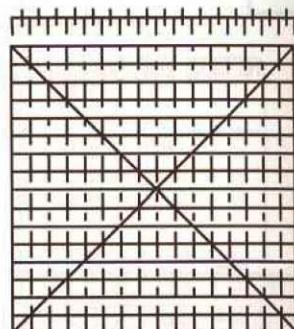
A 21.3 cm square makes a ~ 17 cm spoon.



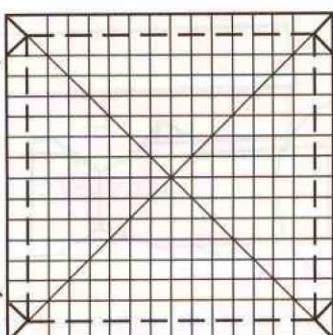
1. For the best results, use foil paper. Start with the color side down. Fold diagonals.



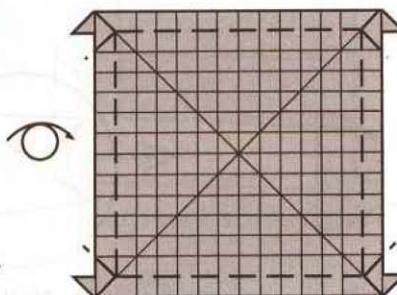
2. Divide into 1/16ths horizontally.



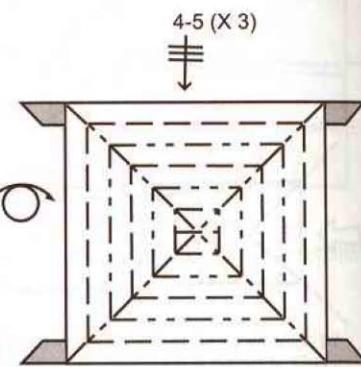
3. Divide into 1/16ths vertically.



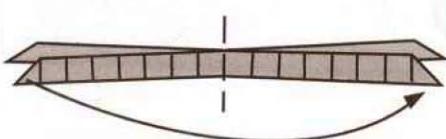
4. Collapse on existing creases. Turn over.



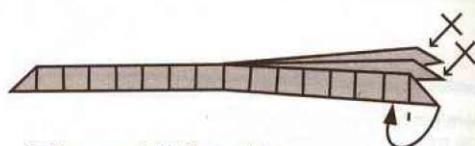
5. Collapse on existing creases. Turn over.



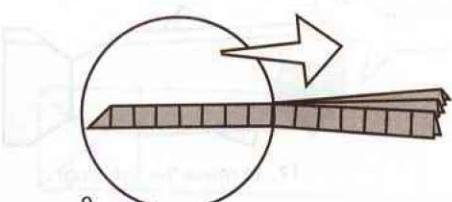
6. Repeat steps 4-5 three times.



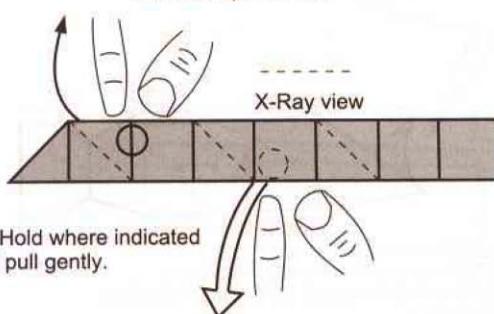
7. Swing one flap over.



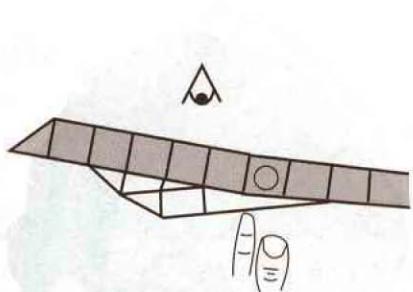
8. Reverse fold. Repeat on the two flaps behind.



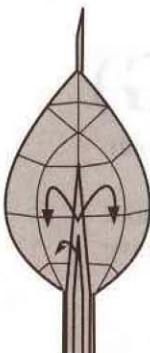
9.



10. Hold where indicated and pull gently.



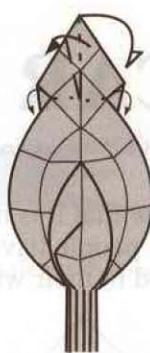
11. Pinch where indicated.



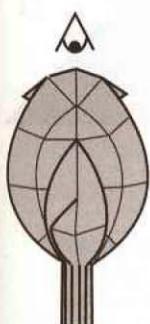
12. Round the spoon. There are two flaps in the center. Spread the larger one and fold the smaller one to the side. Flatten them by pressing with your thumb.



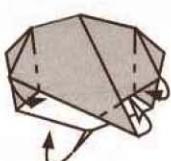
13. Open the tip.



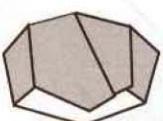
14. Fold the tip down as indicated.



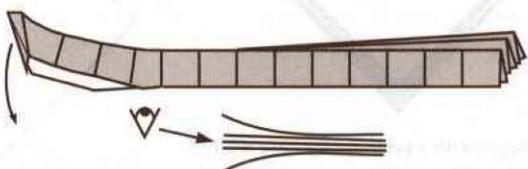
15. Like this.



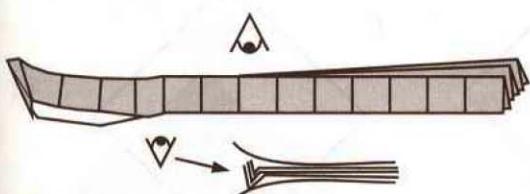
16. Reverse fold the corners. Tuck the tip under. Flatten the bottom of the spoon.



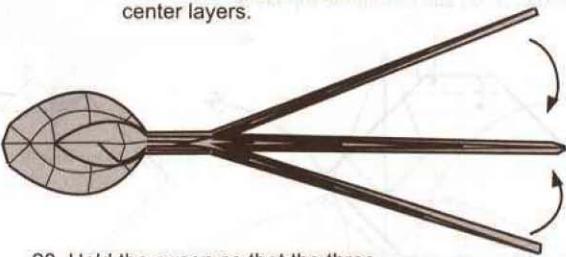
17. Like this.



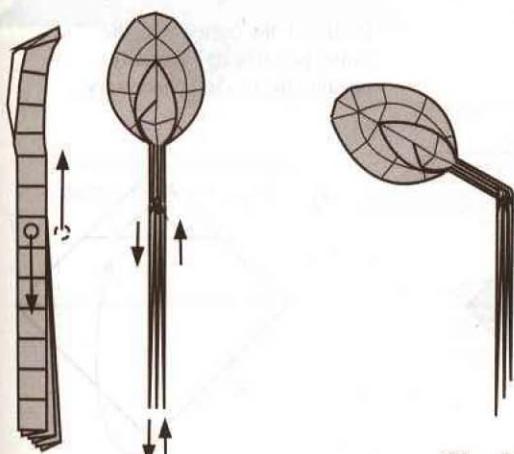
18. Bend the spoon down incorporating a crimp in the center layers.



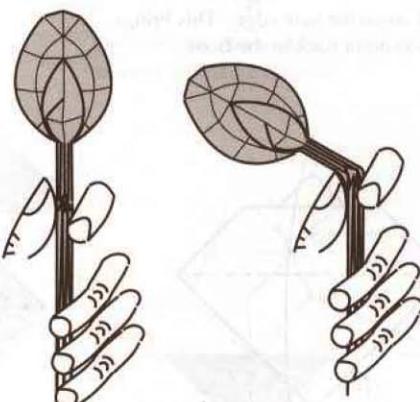
19. Like this.



20. Hold the spoon so that the three handle flaps are pressed together.



21. Simultaneously slide one handle flap down with your thumb and the opposite flap up with your index finger...



22. ...to make the spoon bend.

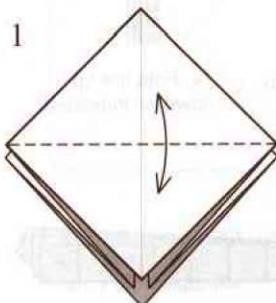
"Do not try and bend the spoon. That's impossible. Instead, only try to realize the truth . . . There is no spoon . . . Then you'll see that it is not the spoon that bends. It is only yourself."

-- *The Matrix*

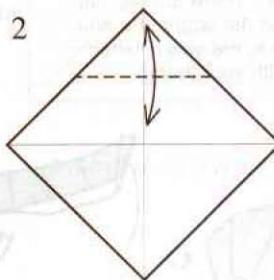
# CAR (VW BUG)

By: Charles Esseltine (2001) Edited by: Jeremy Shafer (2002)

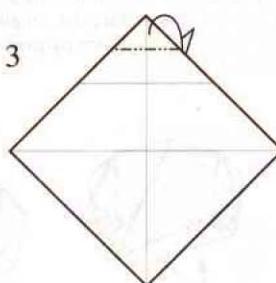
I know that it is not an exact likeness. But so many people have called this a Bug, that I have bowed to their will.



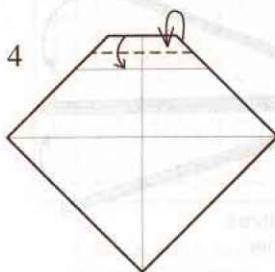
Begin with a preliminary base white side out for a white car, with colored wheels. I think foil is best for this model. But it can be done from any material. Fold and unfold the top layer.



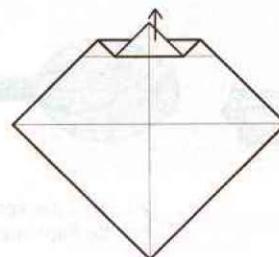
Fold the top to meet the center. Then unfold.



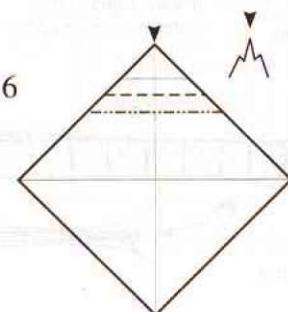
Fold the top point behind to the nearest crease.



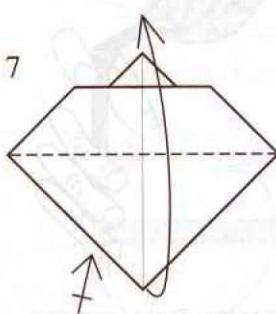
Fold down the new edge. This brings the top point back to the front.



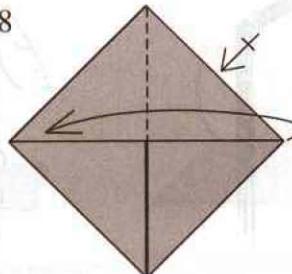
Unfold the layers.



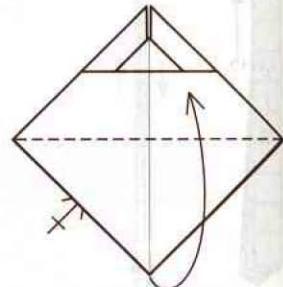
Pleat sink the center, with the center pointing up. Partially opening the model is necessary.



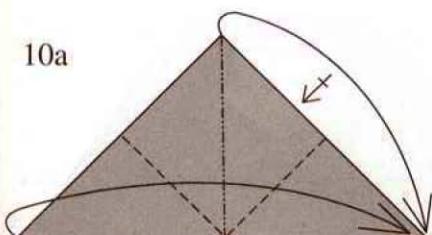
Fold up the front flap.  
Repeat behind.



Open up the side, and refold the model so that the white side is on the outside.



Fold up the remaining sides.



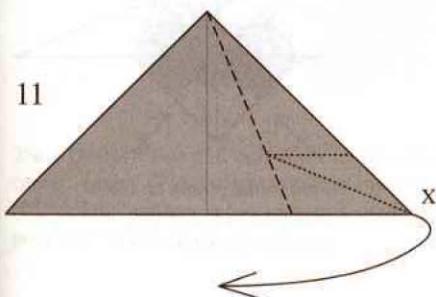
10a

10b



On the front layer, fold the top point to the right corner. Then fold the left point to the right corner.

This is how the bottom will look when it's done.

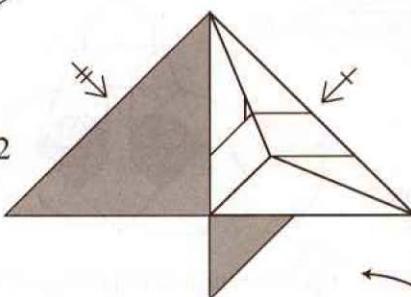


11

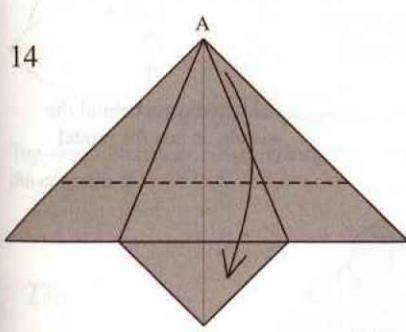


Fold the top 3 layers to the centerline. This will pull up one layer from point X. Fold it down to meet the bottom line.

12



14

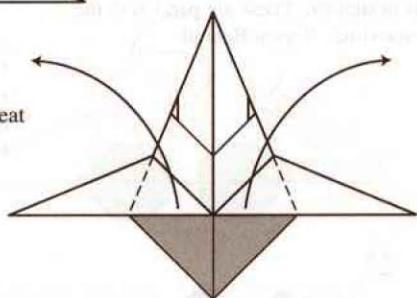


B

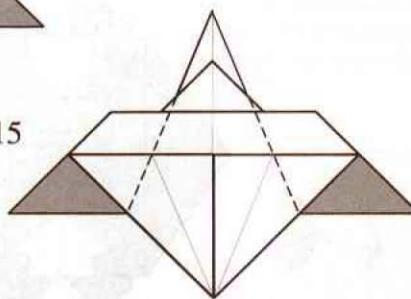
Fold the first layer down from point A to point B.

This is how it will look. Repeat on the other three sides.

13



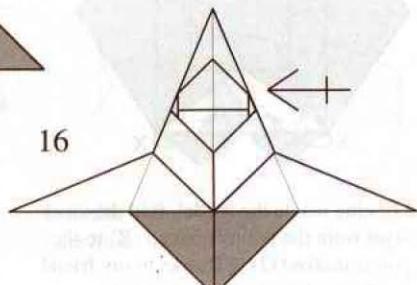
15



Fold the sections back along the existing lines.

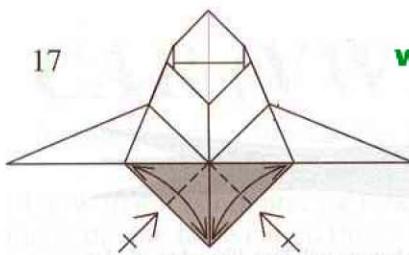
Open out the two middle sections without unfolding the ends.

16

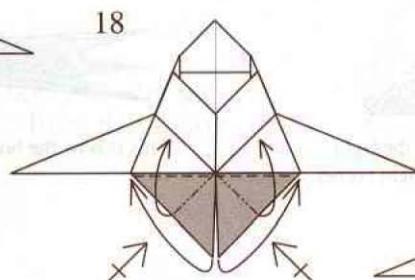


Repeat steps 13-15 on the back.

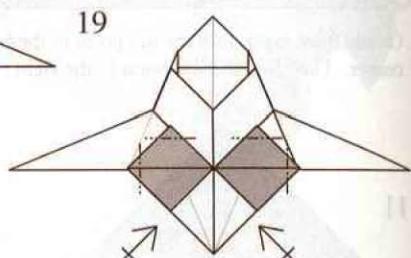
[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)



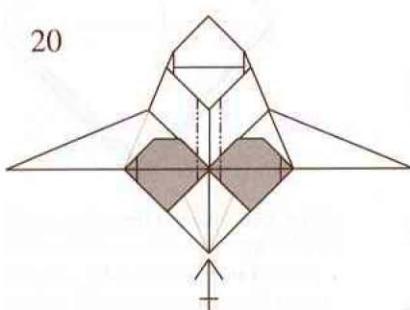
Fold and unfold the bottom flaps on both sides.



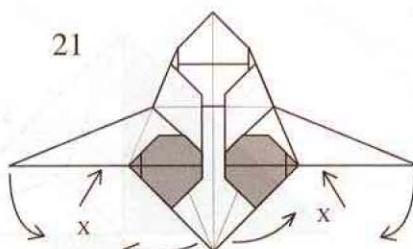
Squash fold the bottom sections. Repeat behind.



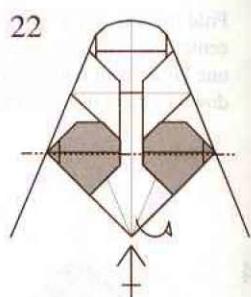
Fold in the points on the outside and top of the wheels. Repeat behind.



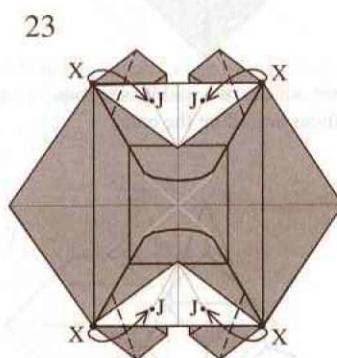
Fold the edges inward the same distance as in step 19. These are parallel to the centerline. Repeat Behind.



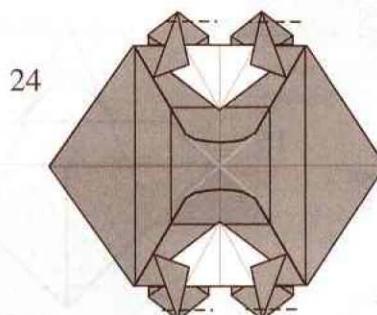
Open the bottom and form the roof. At point (X) open the layers and push upward on the interior layer to form the hood and trunk. Pull down the left and right points.



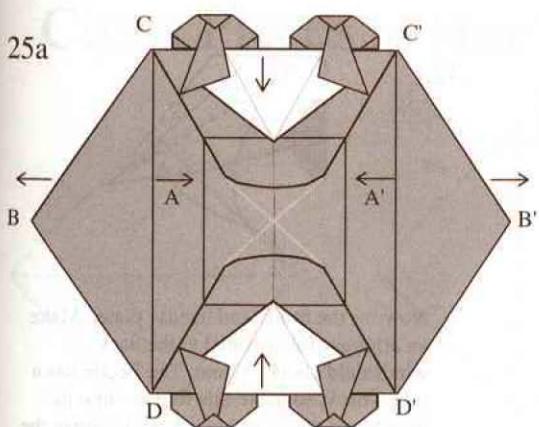
Fold the layers behind the wheels, inside the model.



Looking inside the model, fold the inner layer from the points marked (X) to the points marked (J). [Thanks to my friend Joe Power for locating point (J).]

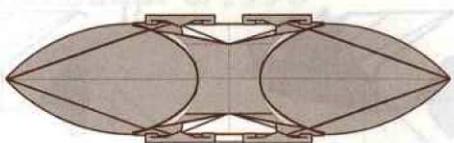


Fold in the bottoms of the wheels.  
Note: The larger the model, the more you can round the wheels.

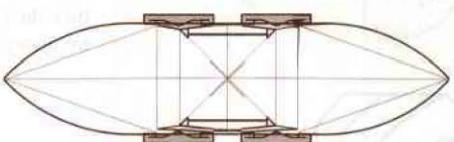


25a.) On each side pull only layer (A & A') in towards the center. Line CD of layer (A) will arc inward, and the sides (CC' & DD') will move towards each other. The outer points (B & B') will move apart.

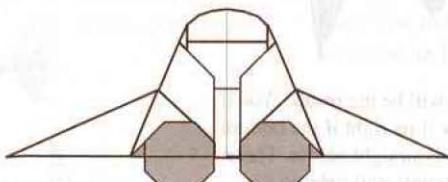
25b.) The model should look like this.



Bottom View

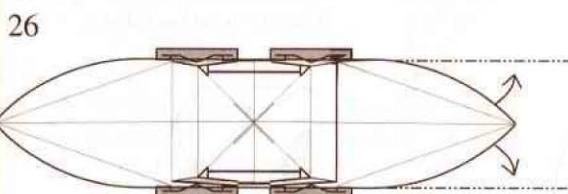


Top View

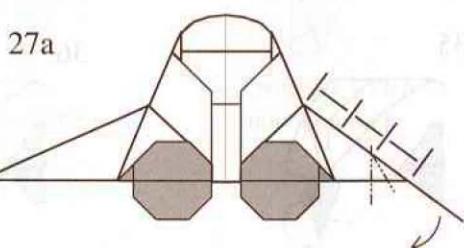


Side View

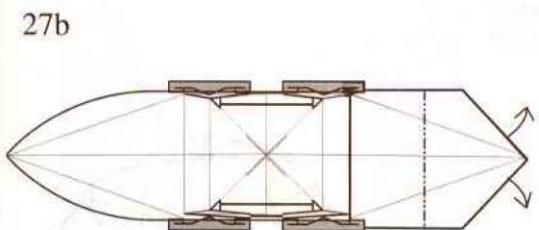
Now for the tough part! Choosing which side will be the front!



Top view. Flatten one end, making the creases parallel to the centerline.

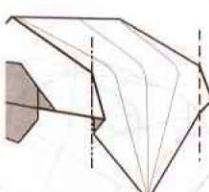


This looks harder than it is. About 2/3 of the way down the edge of the hood, make a soft crease. Pinch the corners so that the front points straight down.



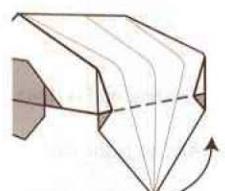
Same step, different view.

28

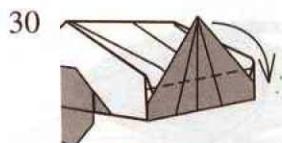


Fold the tips inward, so that they are flat against the front.

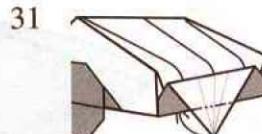
29



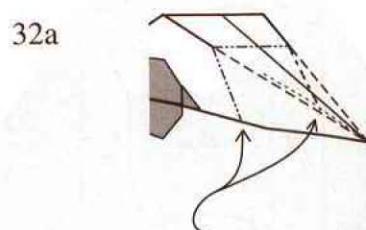
Fold the bottom up as far as it will go.



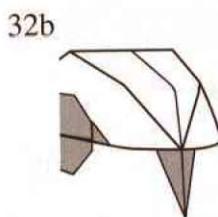
Now fold it down a little bit shy of the top of the hood.



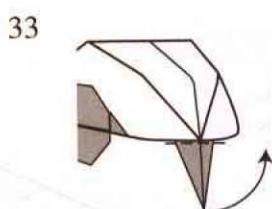
To finish the headlights, just tuck the remaining tip under the edge.



Now for the trunk, and license plate. Make an arbitrary fold parallel to the back windshield's edge. (Note: The Beetle has a round back, so make this fold as close as possible to the windshield.) And reverse the creases as indicated. A soft crease will form on each side of the trunk.

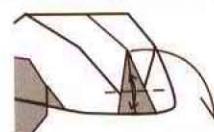


This will be the result. You'll know if its right if the bottom edge is straight across. These two points will meet in the middle of the back. If you want a wider European style plate, leave a gap between the points.

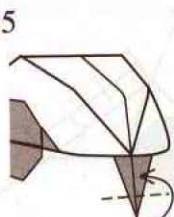


From the bottom edge, fold the point up as far as it will go.

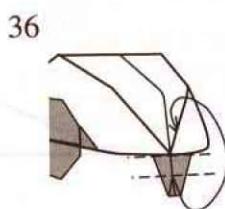
34



Using the edges as a guide, fold, and unfold a line where they meet. Bring the point back down.

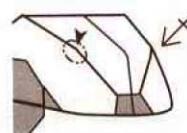


Fold the tip to the marker fold.



Tuck the flap inside the edges to lock the trunk.

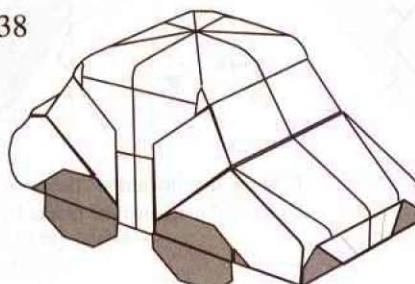
37



Now that the trunk is formed, we can add the taillights. Dimple sink the points to taste.

O.K. We've got the trunk locked. Now We've got to figure out how to unlock the doors!

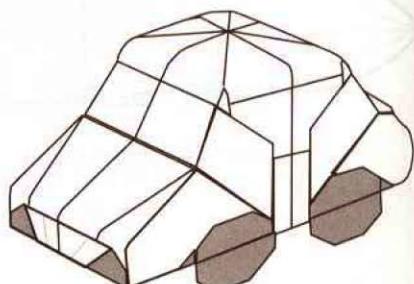
38



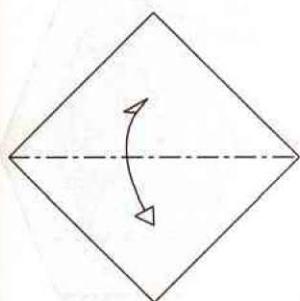
The rear end is done.

And so is the car!

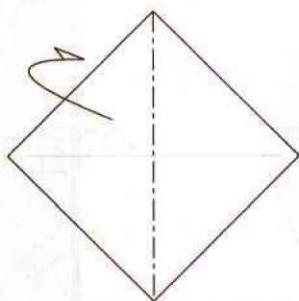
Drive Safely!



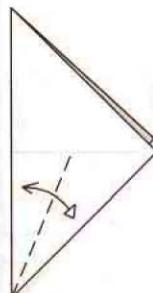
# Chess Pieces by Marc Kirschenbaum ©1996



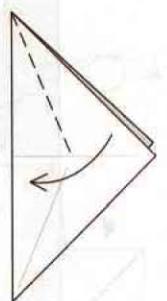
1. Precrease with a mountain fold.



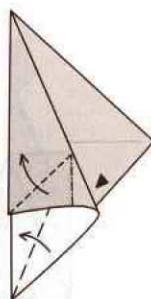
2. Mountain fold in half.



3. Precrease the lower portion.



4. Valley fold part way. The model will not lie flat.



5. Squash fold to flatten.



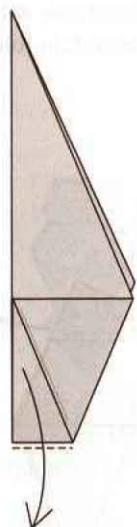
6. Repeat steps 3-5 behind.



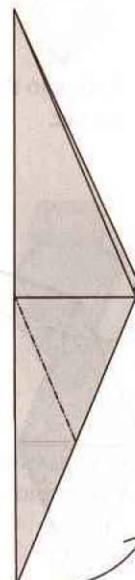
7. Valley to the center.



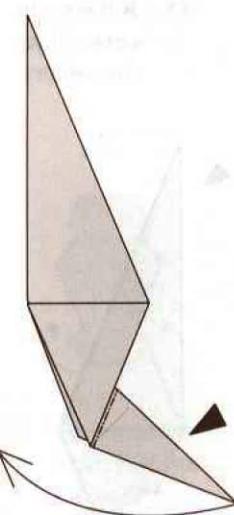
8. Precrease with a mountain fold.



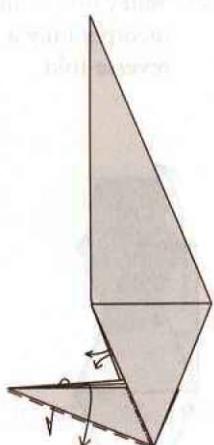
9. Unfold.



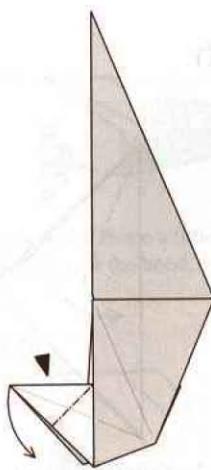
10. Reverse fold.



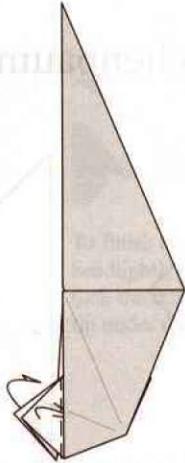
11. Reverse fold again.



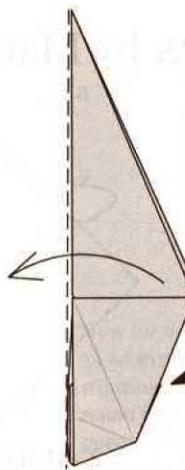
12. Pull out a single layer at each side.



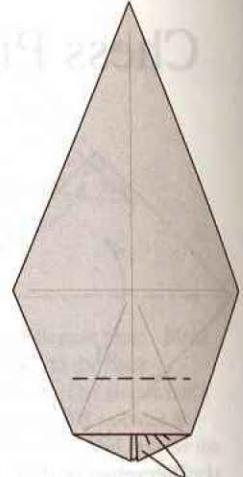
13. Reverse fold.



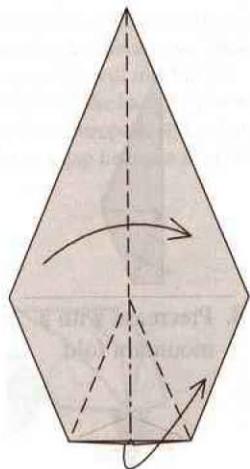
14. Tuck the flaps under the outer layers.



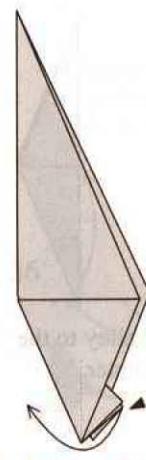
15. Open out, allowing the center flap to squash flat.



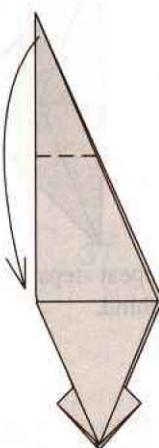
16. Valley into the pocket.



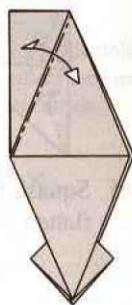
17. Valley over, while incorporating a reverse fold.



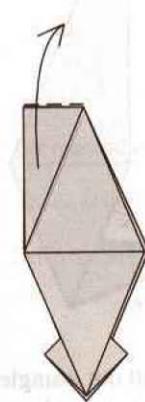
18. Reverse the center layer through.



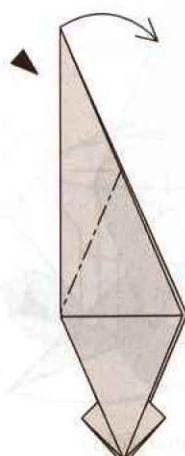
19. Valley to the corner.



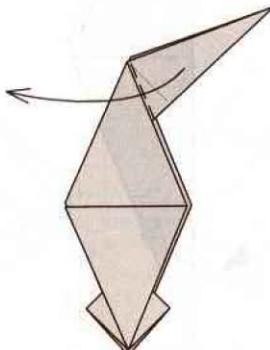
20. Precrease with a mountain fold.



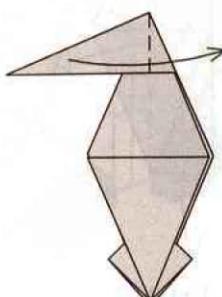
21. Unfold.



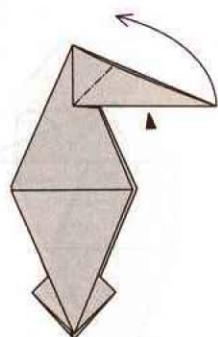
22. Reverse fold.



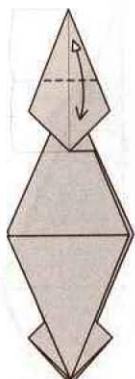
23. Valley over.



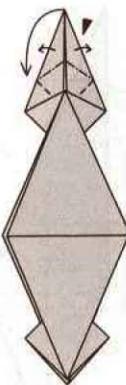
24. Valley again.



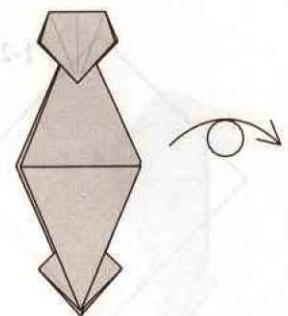
25. Squash fold.



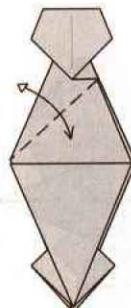
26. Precruse and turn over.



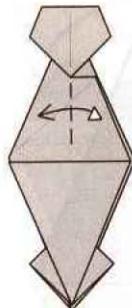
27. Squash fold, so as to make the top look the same on both sides.



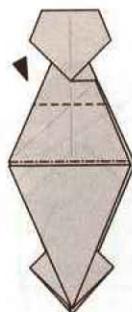
28. Turn over.



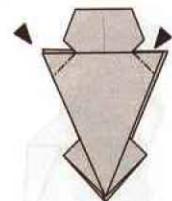
29. Precruse.



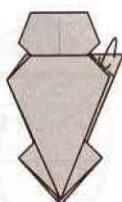
30. Precruse the top section in half.



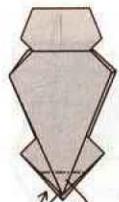
31. Reverse fold in and out. Note that the valley fold goes through the intersection of creases.



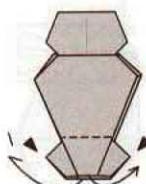
32. Reverse fold the thick corner at the left, and one corner at the right.



33. Tuck the flap into the pocket.



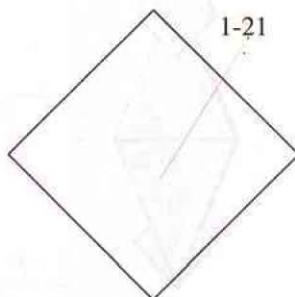
34. Mountain fold the corners in.



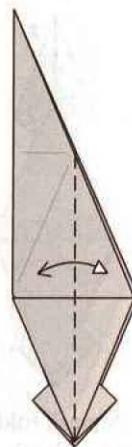
35. Open out the base. You can either crease sharply or leave it rounded.



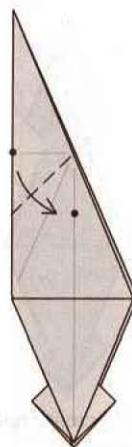
36. Completed Pawn.



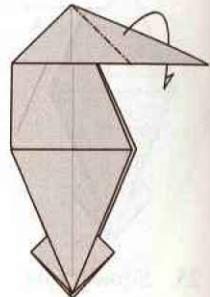
37. Begin with a same sized square for the castle. Repeat steps 1-21.



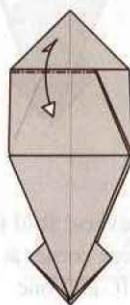
38. Precrease lightly. Repeat behind.



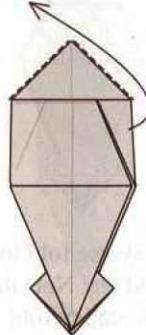
39. Valley, such that the creases meet.



40. Mountain fold.



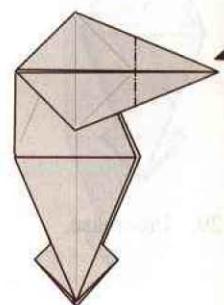
41. Precrease with a mountain fold.



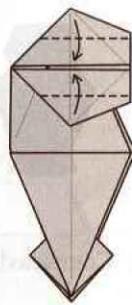
42. Open out the flap.



43. Squash fold.



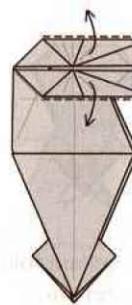
44. Sink the tip.



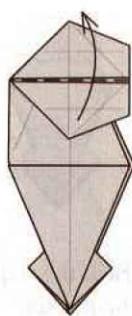
45. Valley the corners to the center.



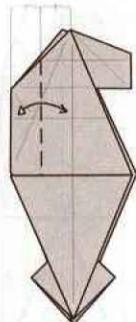
46. Precrease with mountain folds.



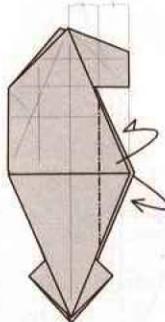
47. Open out.



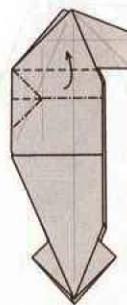
48. Swing up.



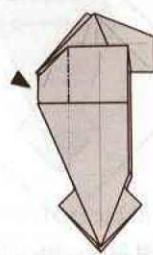
49. Precrease.



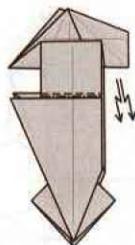
50. Mountain fold the sides in halfway.



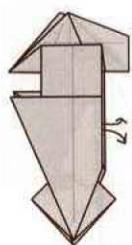
51. Crimp upwards, while pushing in the side.



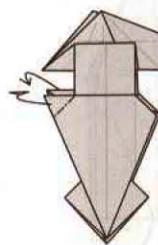
52. Sink halfway. Part of the sink is hidden.



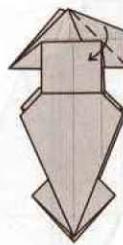
53. Form a very tiny crimp.



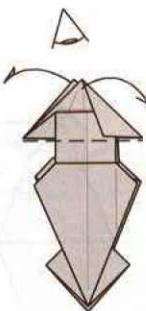
54. Pull out a layer from each side, allowing the upper edge to taper.



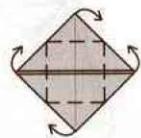
55. Mountain fold the two corner to match the right side.



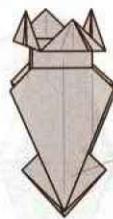
56. Valley over at each side to lock.



57. Open out the sides at a angle.



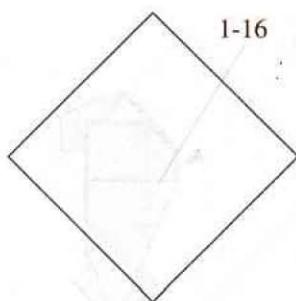
58. View from above. Valley each corner up at a 90° angle.



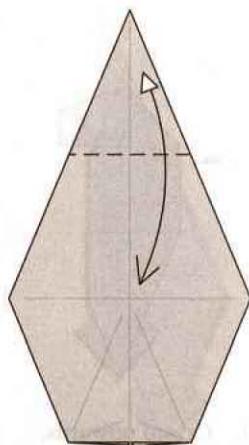
59. Repeat steps 34-35.



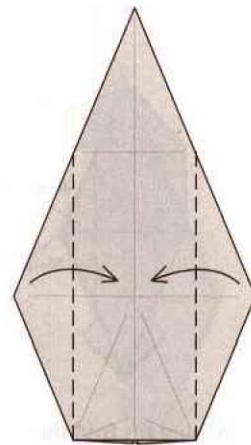
60. Completed Castle.



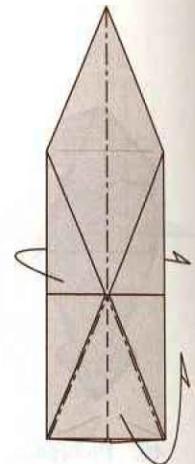
61. Begin with a same sized square for the knight. Repeat steps 1-16.



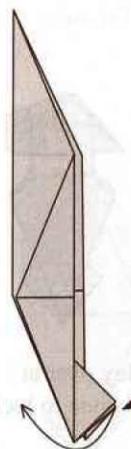
62. Precrease.



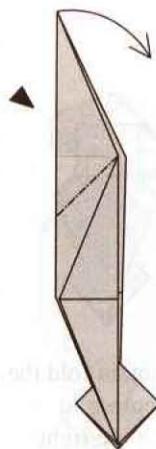
63. Valley to the center. Do not crease sharply.



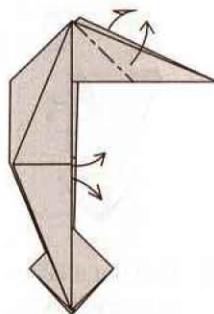
64. Mountain fold in half, while incorporating a reverse fold.



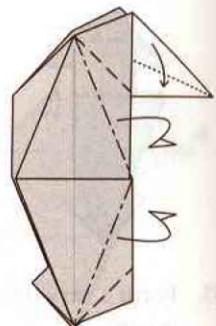
65. Reverse the center layer through.



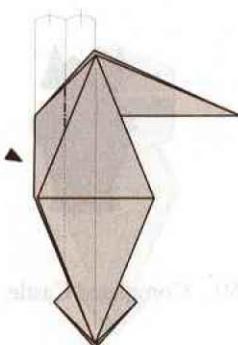
66. Reverse fold.



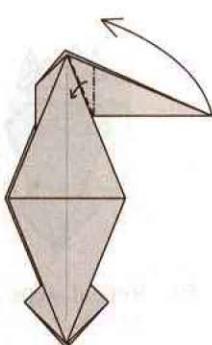
67. Pull out a layer from each side. Do not completely flatten.



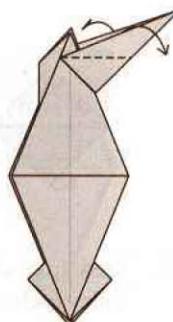
68. Swivel in all of the sides, and flatten.



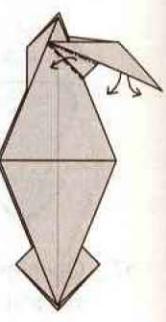
69. Closed sink the center flap halfway.



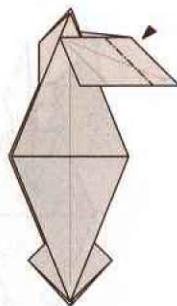
70. Crimp upwards.



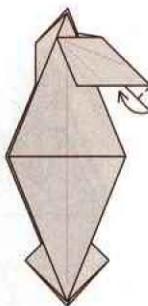
71. Outside reverse fold.



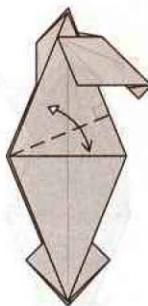
72. Pull out a single layer from each side as far as possible.



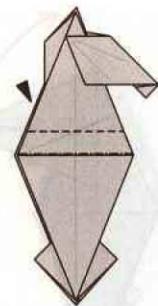
73. Closed reverse fold.



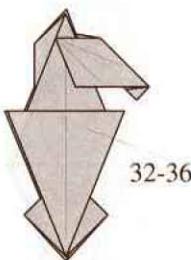
74. Outside reverse fold.



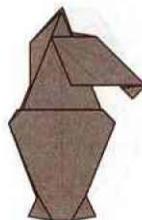
75. Precrease.



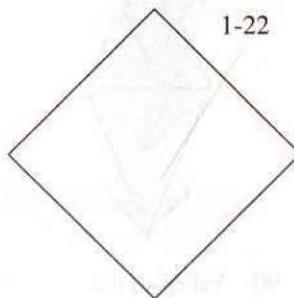
76. Reverse fold in and out. Note that the valley fold goes through the intersection of creases.



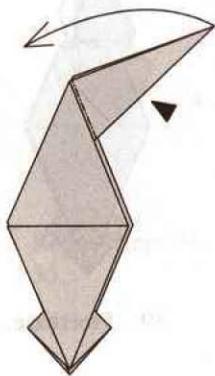
77. Repeat steps 32-36.



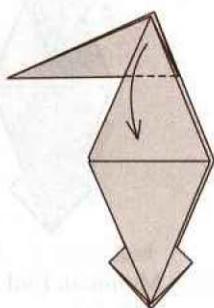
78. Completed Knight.



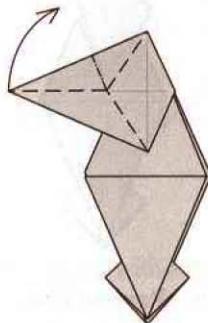
79. Begin with a same sized square for the bishop. Repeat steps 1-22.



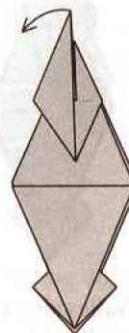
80. Reverse fold.



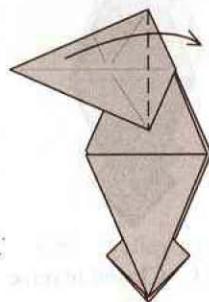
81. Open out.



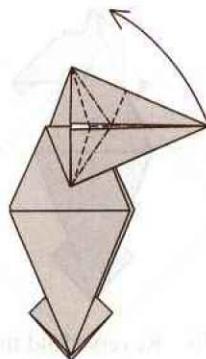
82. Rabbit ear.



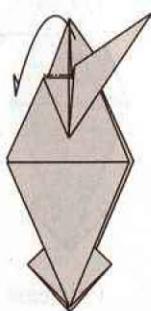
83. Undo the rabbit-ear.



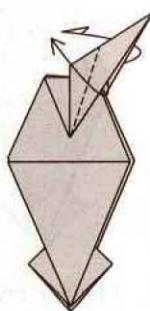
84. Swing over.



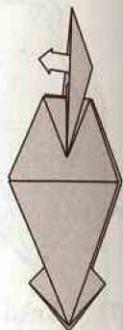
85. Redo the rabbit-ear, while adding additional folds.



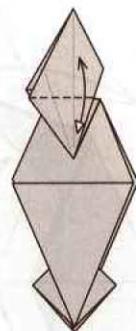
86. Swing back.



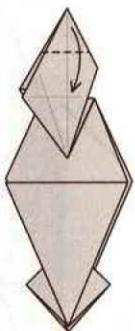
87. Outside reverse fold.



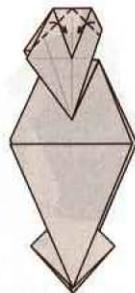
88. Pull out a single layer at each side.



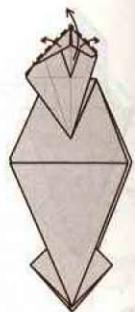
89. Precrease.



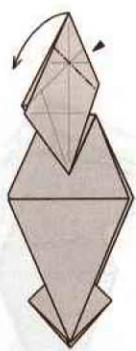
90. Valley to the intersection of creases.



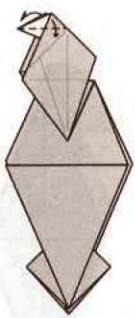
91. Valley to the center.



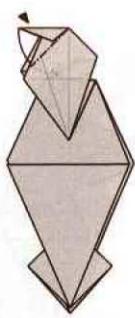
92. Unfold.



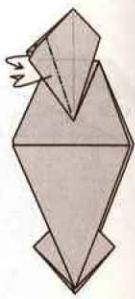
93. Closed reverse fold.



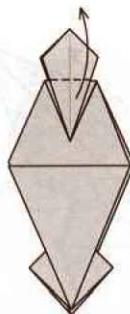
94. Valley down at each side.



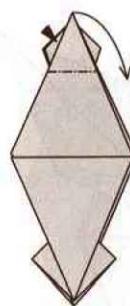
95. Reverse fold.



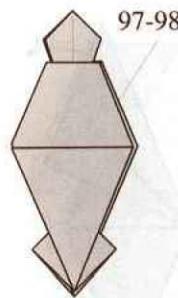
96. Mountain fold at each side.



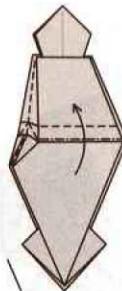
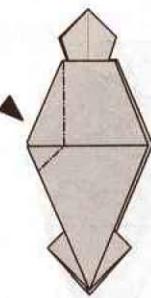
97. Valley up.



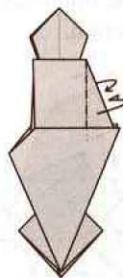
98. Reverse fold.



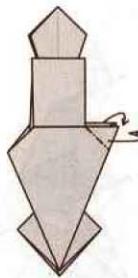
99. Repeat steps 97-98 behind.



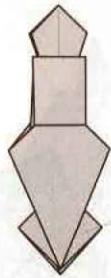
101. Crimp both sides to flatten.



102. Swivel in both sides.



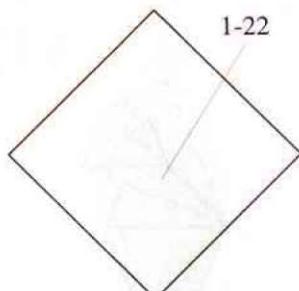
103. Mountain fold the two corners.



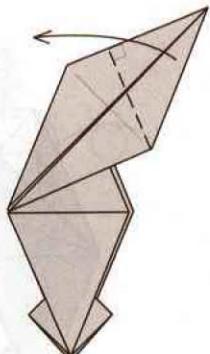
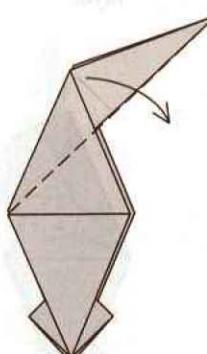
104. Repeat steps 34-35.



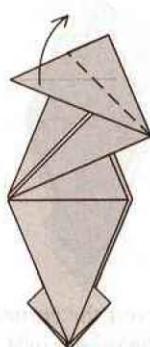
105. Completed Bishop.



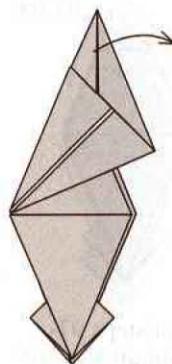
106. Begin with a same sized square for the queen.



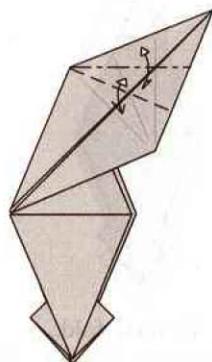
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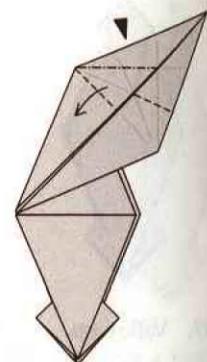
109. Valley up.



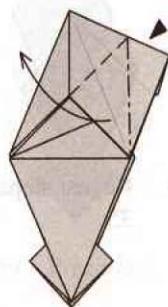
110. Unfold the pleat.



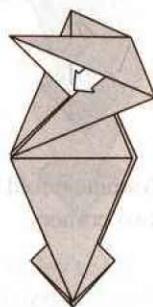
111. Repeat the  
precreases from  
steps 108 and 109  
in the opposite  
direction.



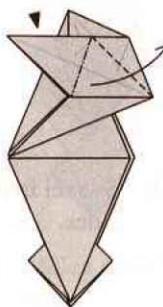
112. Squash fold.



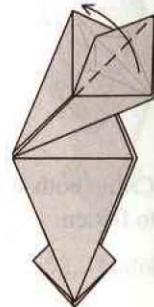
113. Squash again.



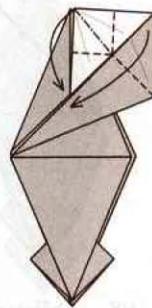
114. Pull out a single  
layer.



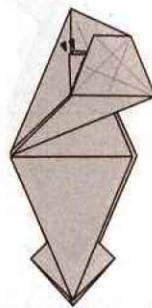
115. Squash fold.



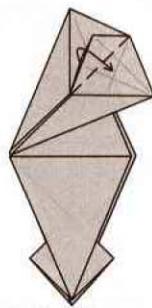
116. Valley up.



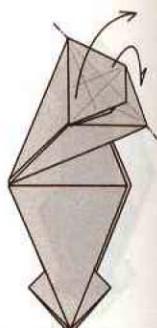
117. Swing the flap  
down, while  
incorporating a  
reverse fold.



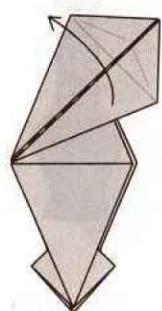
118. Reverse fold  
twice.



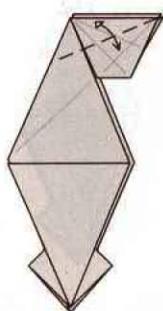
119. Swing the center  
flap over.



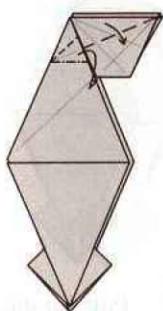
120. Flip the cluster of  
flaps upwards.



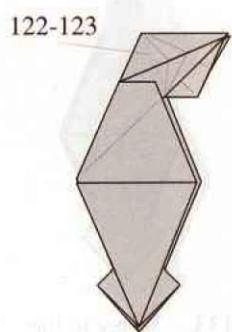
121. Swing up.



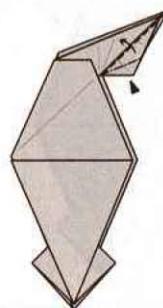
122. Precrease.



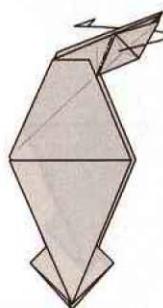
123. Swivel fold.



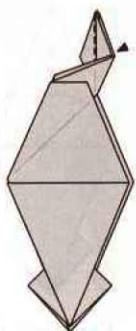
124. Repeat steps 122-123 behind.



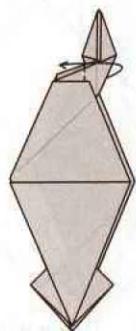
125. Spread squash.



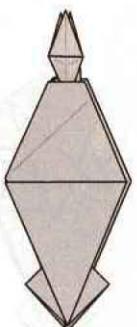
126. Mountain fold.



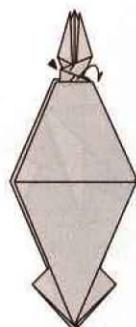
127. Reverse one layer through.



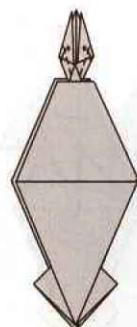
128. Valley, so as to align along the center.



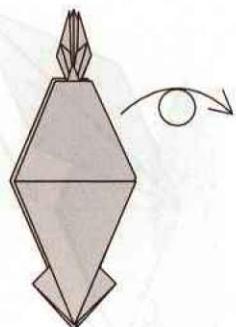
129. Turn over.



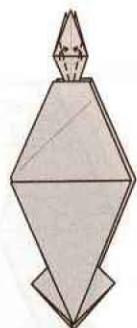
130. Swivel fold the double layer.



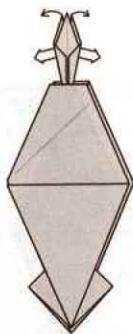
131. Valley the top layers to the center.



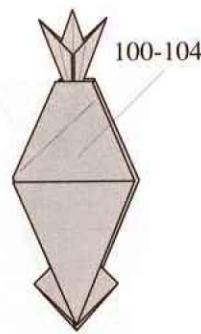
132. Turn over.



133. Valley to the center.



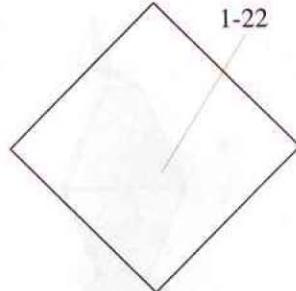
134. Pull out the side flaps.



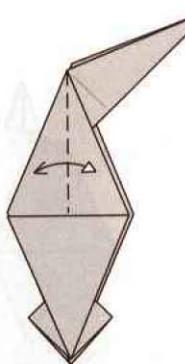
135. Repeat steps 100-104.



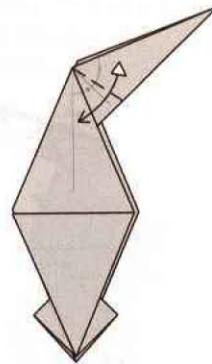
136. Completed Queen.



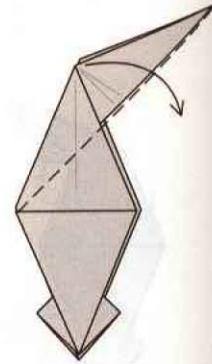
137. Begin with a same sized square for the king. Repeat steps 1-22.



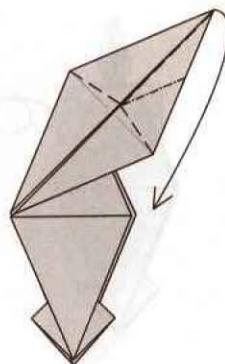
138. Precrease in half lightly.



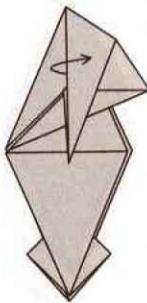
138. Bring the flap along the center and unfold.



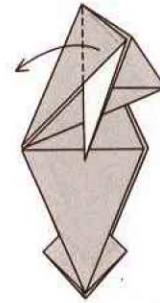
139. Lightly open out the flap.



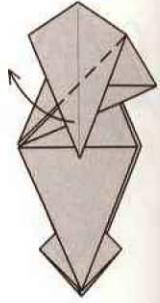
140. Rabbit ear using the existing creases.



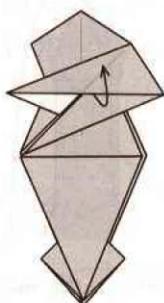
141. Wrap around a single layer.



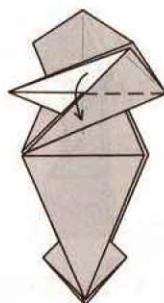
142. Swing over.



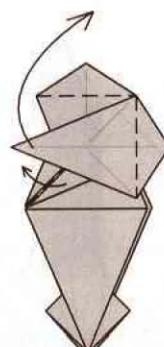
143. Valley up lightly.



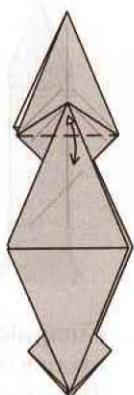
144. Wrap around a single layer.



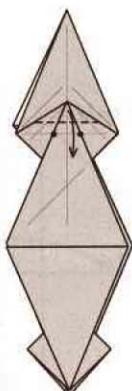
145. Swing down.



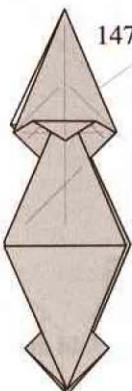
146. Pull the flap up, while collapsing.



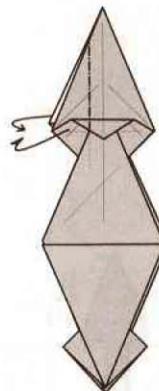
147. Precrease.



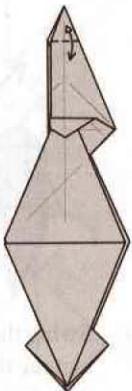
148. Valley, allowing the edges to meet the indicated intersections.



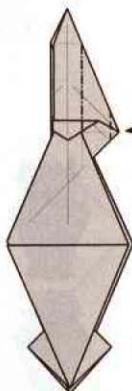
149. Repeat steps 147-148 behind.



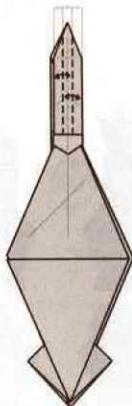
150. Mountain fold the sides.



151. Precrease.



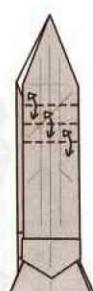
152. Closed sink the corner in and out.



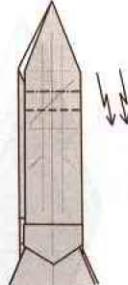
153. Precrease into thirds.



154. Precrease.



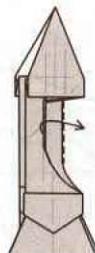
155. Precrease, using the intersection of creases as guides.



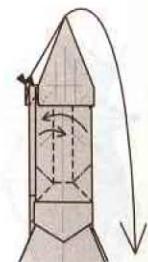
156. Crimp along the existing creases. The inner layers will not be symmetrical.



157. Valley over, pulling some paper from inside the crimp.

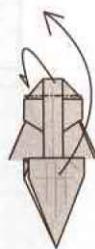


158. Swing through.

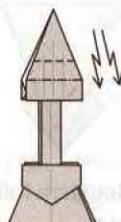


159. Swivel the sides inwards, allowing two reverse folds to form at the right. The flap will swing down.

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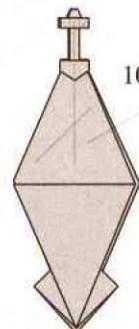
160. Swing the flap up, tucking the excess into the pocket behind.



161. Crimp the tip.



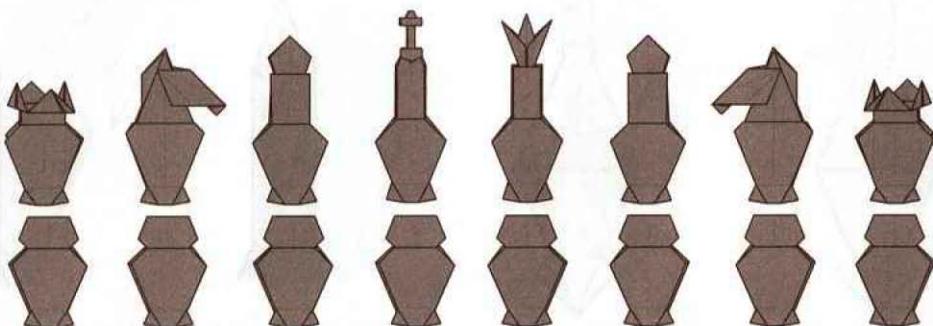
162. Reverse fold the tip.



163. Repeat steps 100-104.



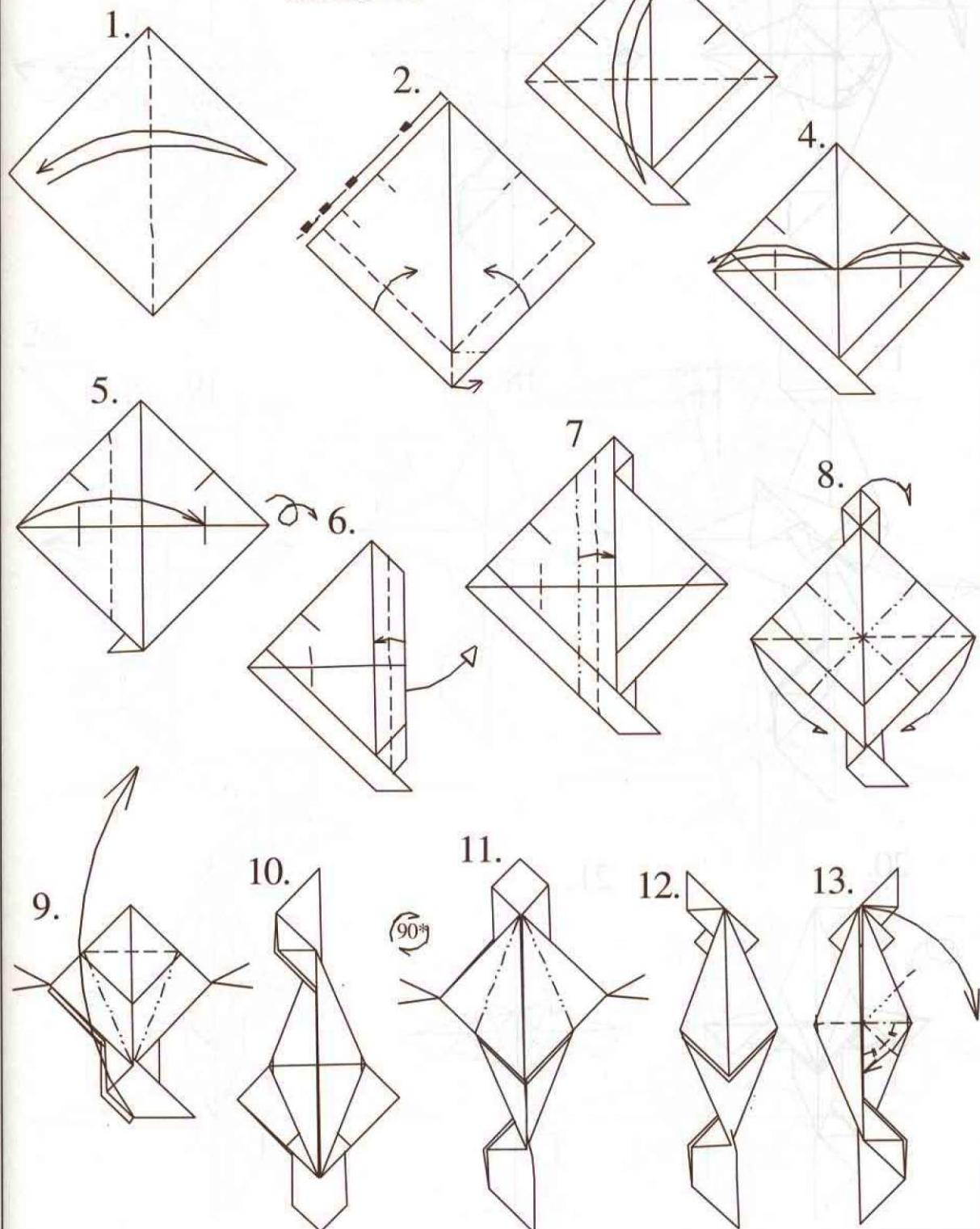
164. Completed King.



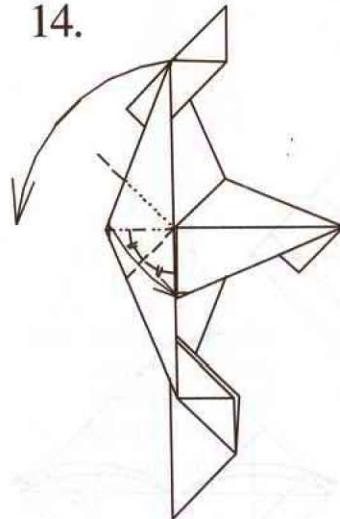
165. Completed Chess Pieces.  
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# SIRENA

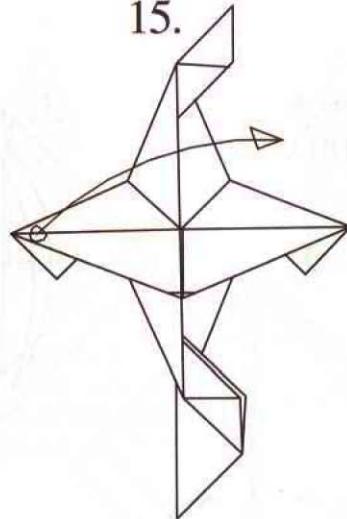
POR: Willyman Reed Cardona A  
COLOMBIA



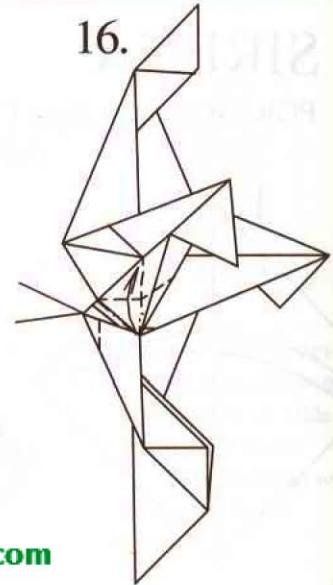
14.



15.

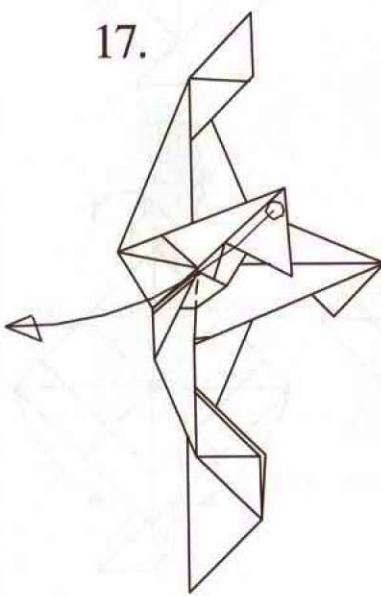


16.

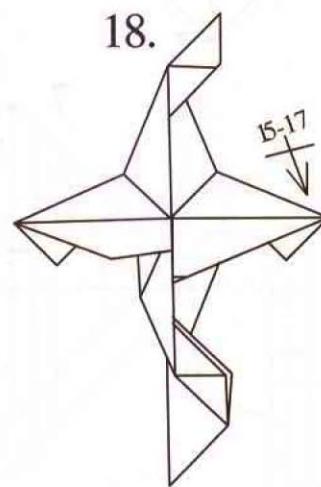


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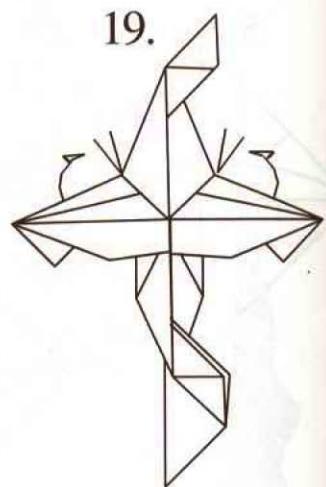
17.



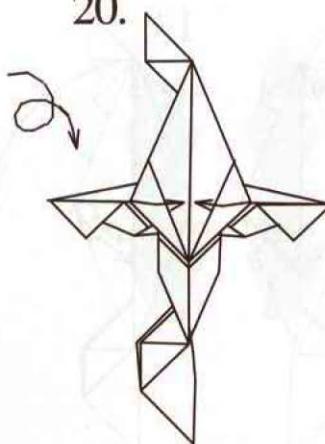
18.



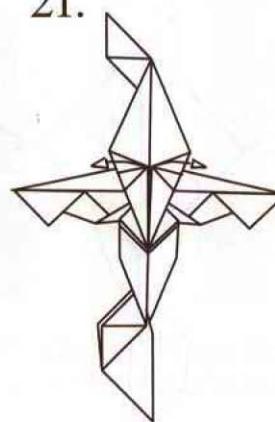
19.



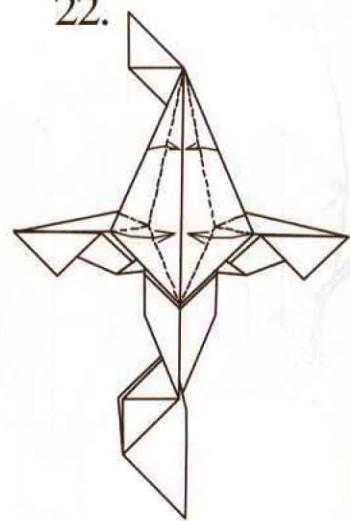
20.



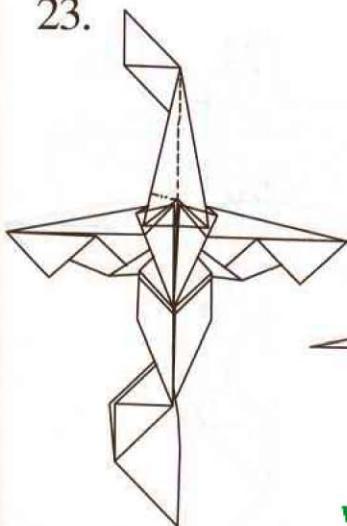
21.



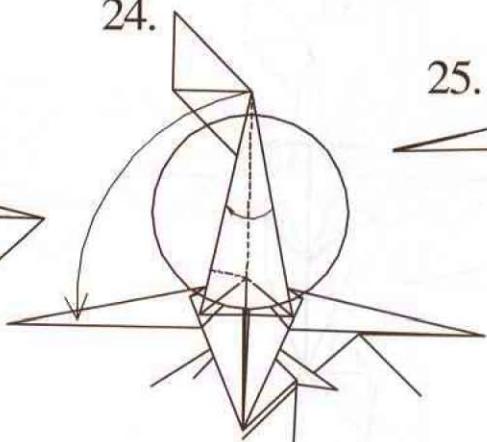
22.



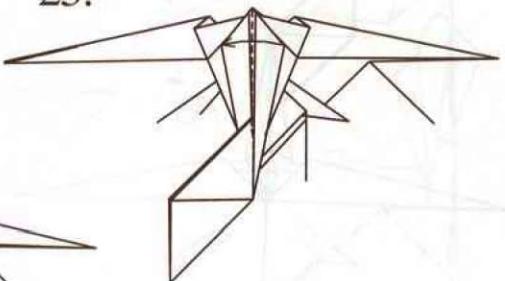
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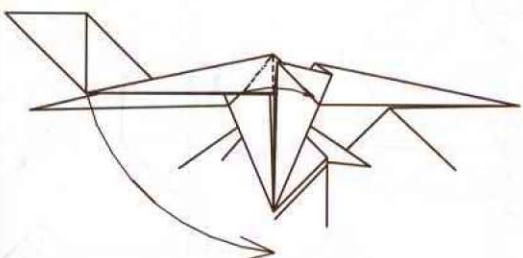
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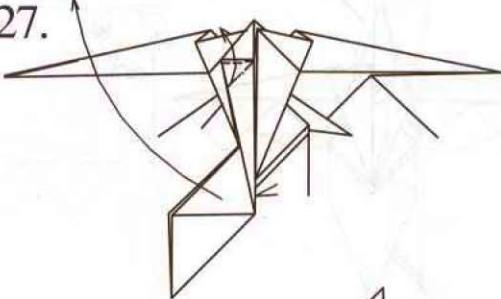
25.



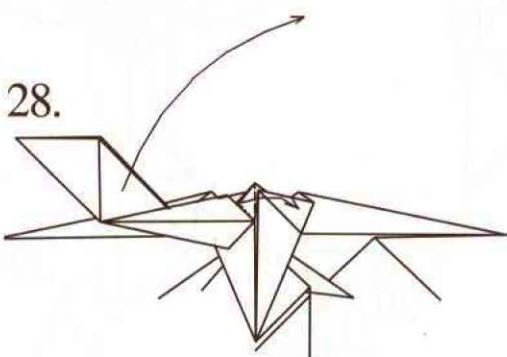
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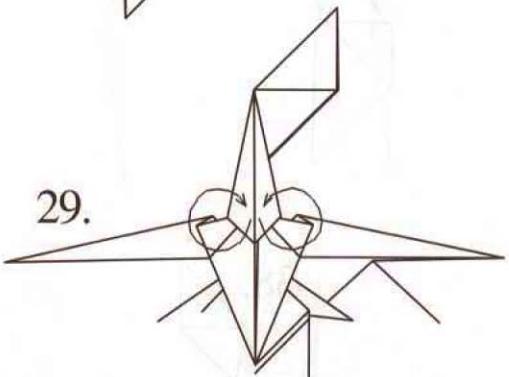
27.



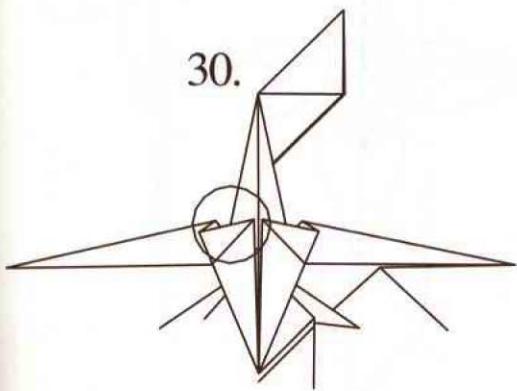
28.



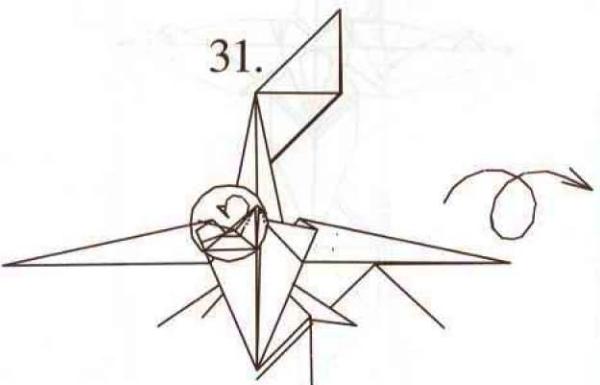
29.

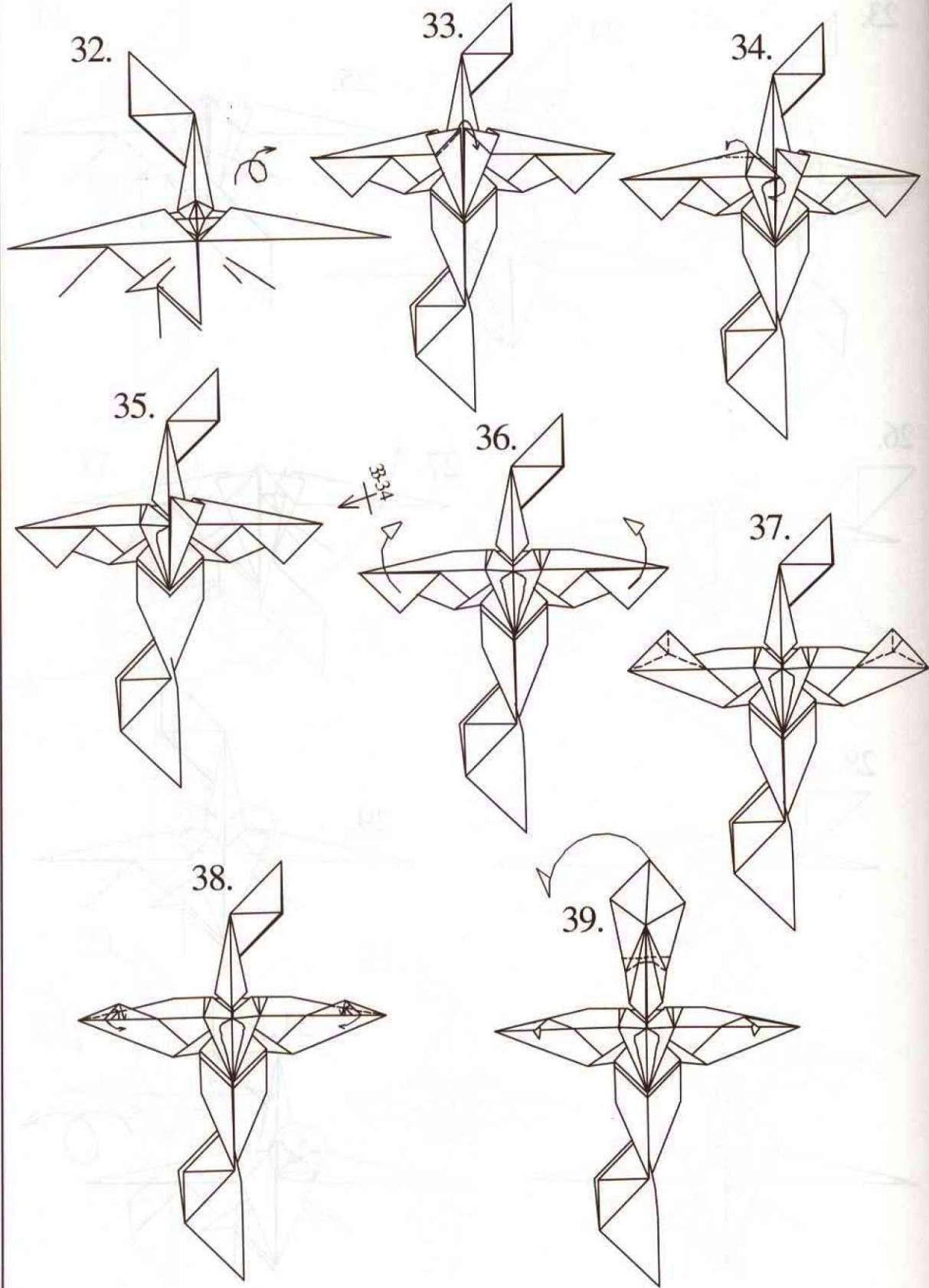


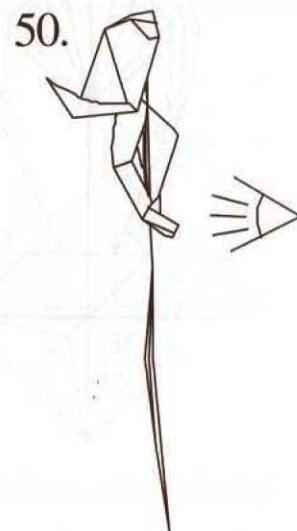
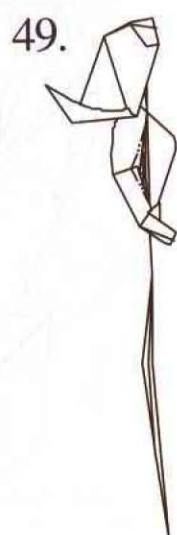
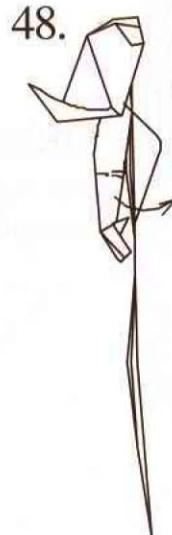
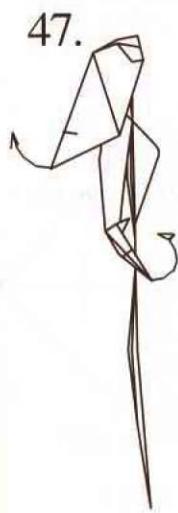
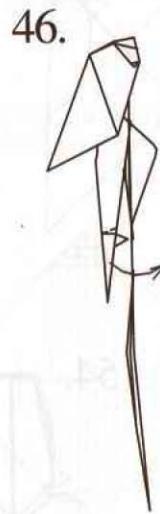
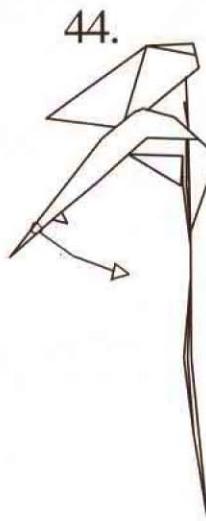
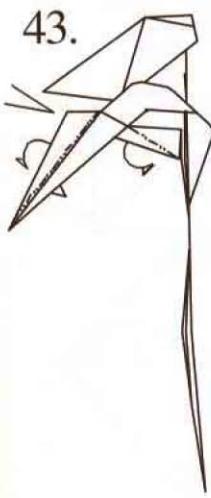
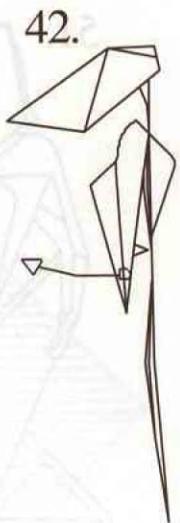
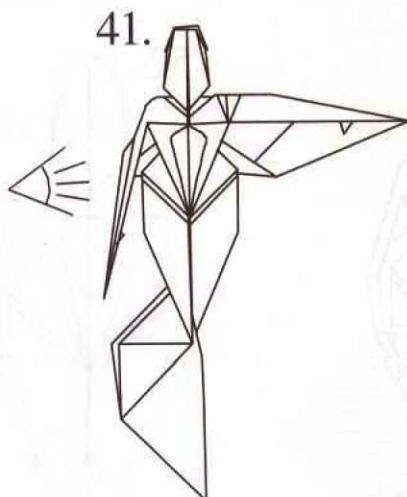
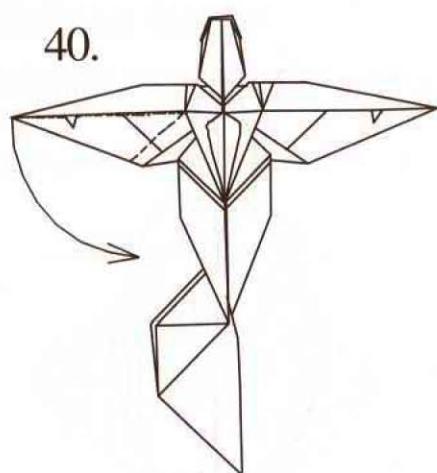
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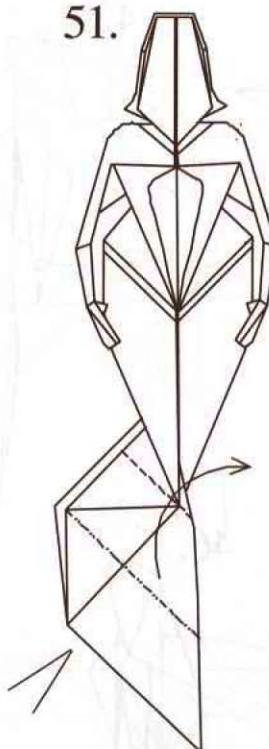
31.



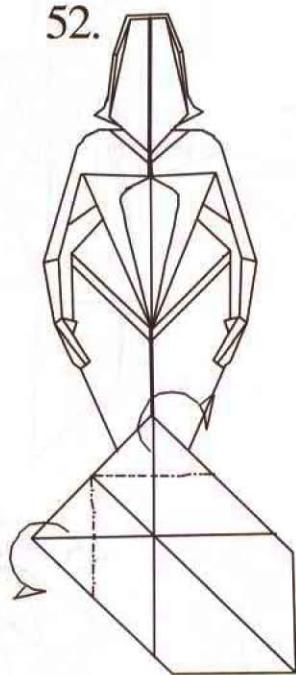




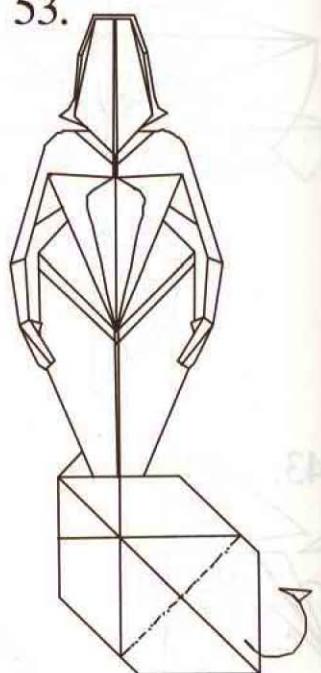
51.



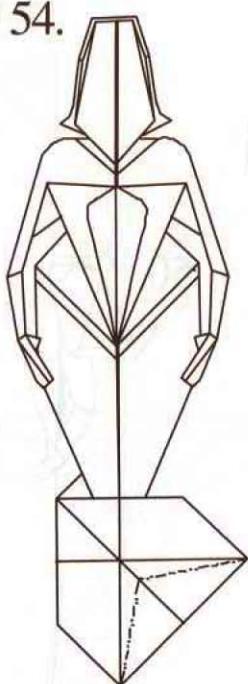
52.



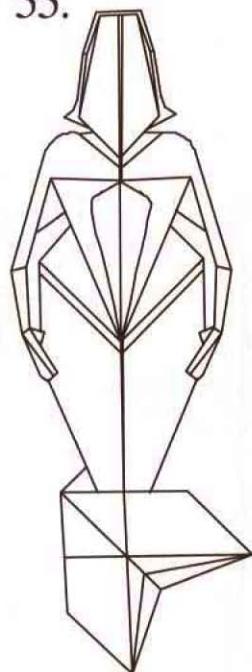
53.



54.



55.



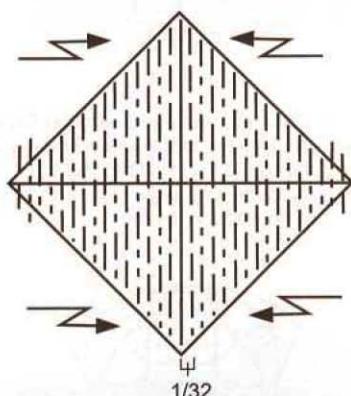
### SIRENA

POR: Willyman Reed Cardona A  
COLOMBIA

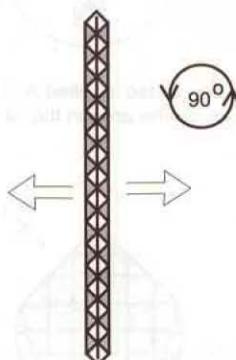
## Golden Snitch

designed and diagrammed by Peter Farina

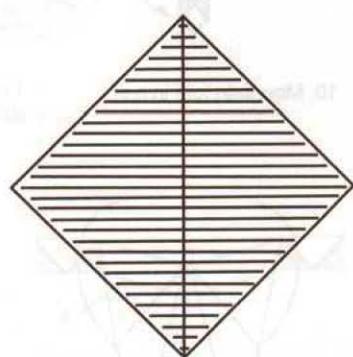
A 12 cm square makes a golden snitch with a ~12.5 cm wingspan.



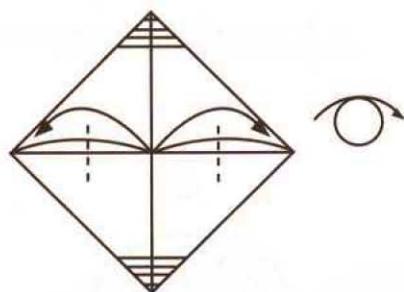
1. For best results, use gold foil. Divide into thirtyseconds (1/32) and pleat.



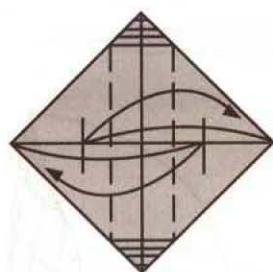
2. Unfold and turn the paper so the creases are horizontal.



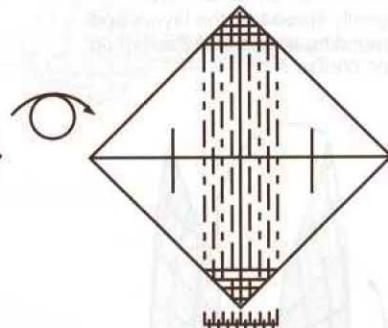
3. The next diagrams have some creases omitted to make them clearer.



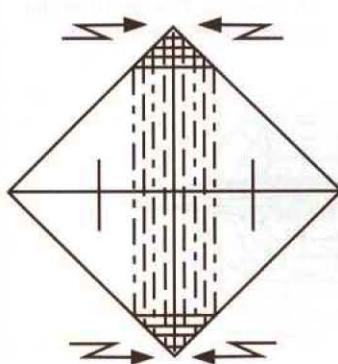
4. Fold the corners to the center and make a light crease. Unfold. Turn over.



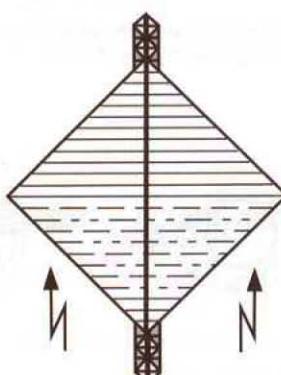
5. Fold the corner to the crease made in step 4 and unfold. Repeat on the other side.



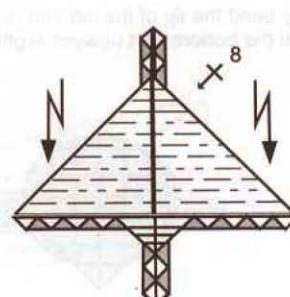
6. Divide the area between the creases made in step 5 into 8 equal sections.



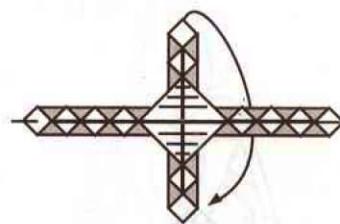
7. Pleat.



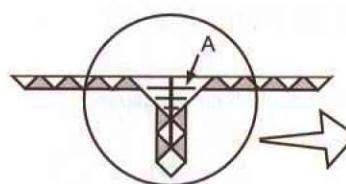
8. Pleat on existing creases.



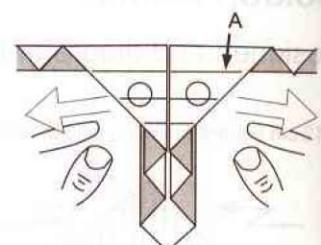
9. Repeat step 8 on the top half.



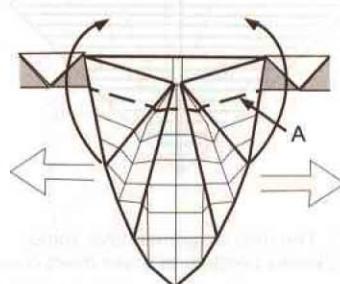
10. Mountain fold in half.



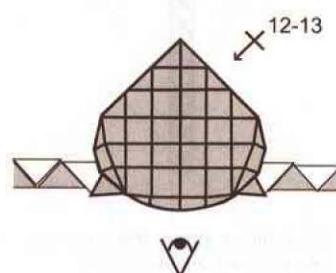
11. Note the crease labelled A. The next steps focus on the area in the circle.



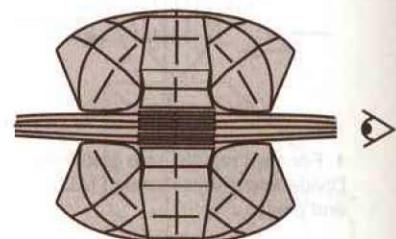
12. Grab the large triangular flaps. (Make sure that you are holding only the top layer.) Pull the flaps in opposite directions slowly and gently to spread the layers.



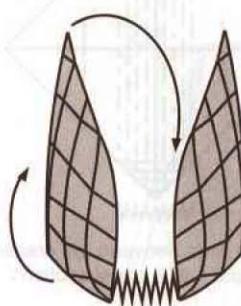
13. From this point on, the model will not lie flat. Keep gently spreading the layers and rounding as you fold the flap up on crease A.



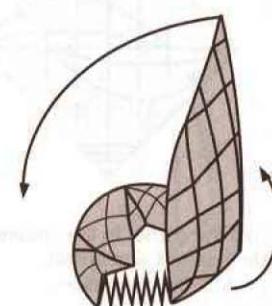
14. Repeat steps 12-13 on the other side.



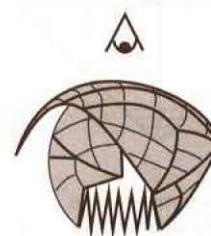
15. This is a view from the back. The next diagram is a view from the side.



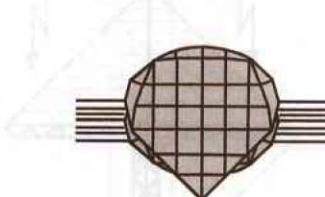
16. Gently bend the tip of the left flap down and swivel the bottom part upward slightly.



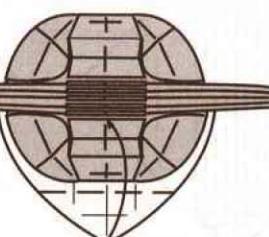
17. Repeat step 16, wrapping the right layer over the left.



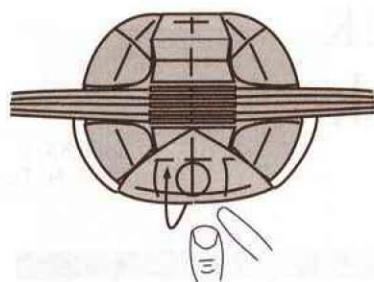
18. Like this. The next diagram is a view from the front.



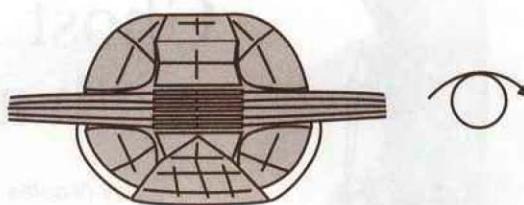
19. Turn over



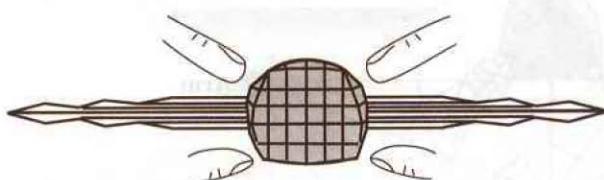
20. Fold the tab up.



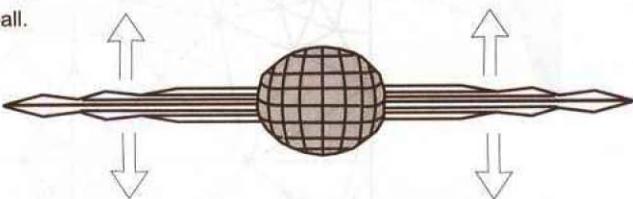
21. Grab the model where indicated, pinch and fold to keep the flap in place.



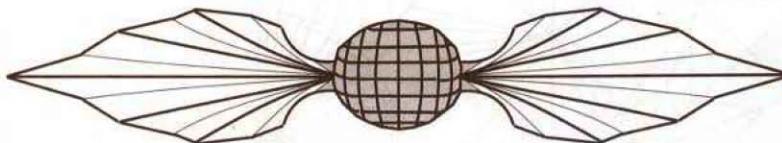
22. Turn model over.



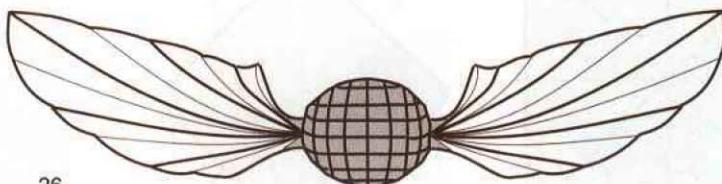
23. Pinch gently to shape the ball.



24. Spread the wings.



25. Shape wings to taste.



26.

Now pick up your wand and enunciate clearly:

Wingardium leviosa

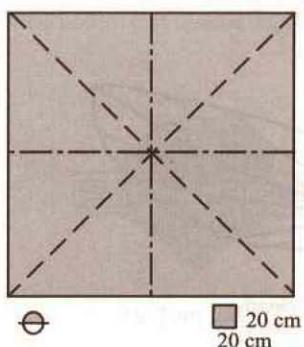
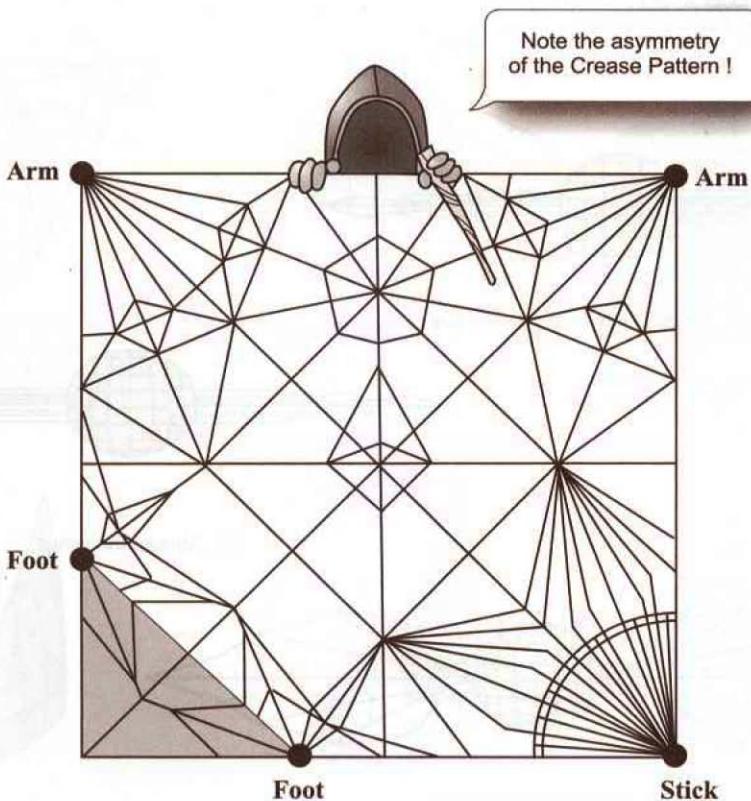


# Ghost Monk with a stick

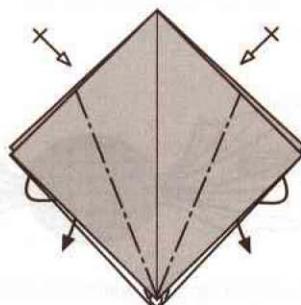
By Nicolas TERRY

april 2003  
Diagram : N. Terry

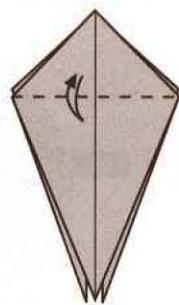
Dimension : a square of 20 cm makes a monk of 7 x 4 cm.



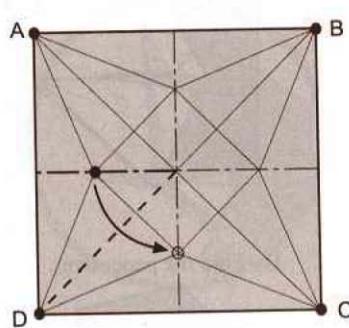
1. Start with white side down.



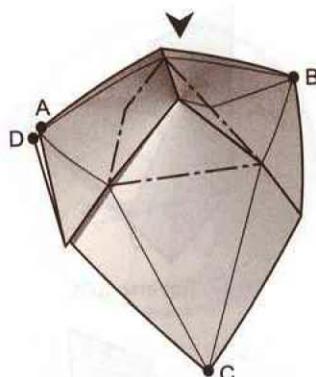
2. Four reverse  
folds.



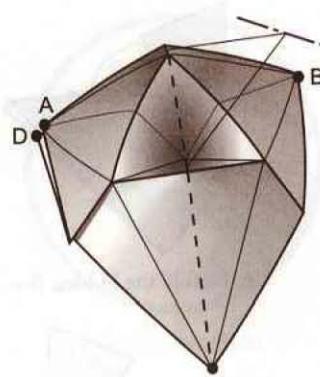
3. Bird Base. Fold and Unfold.  
Then, unfold until step 1.



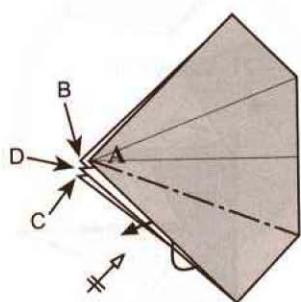
4. The model becomes 3D.  
The fold creates a pyramidal shape.



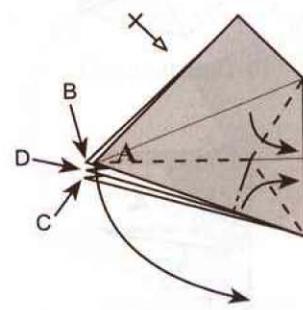
5. Sink the tip.



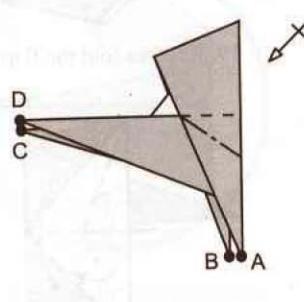
6. Fold in half.



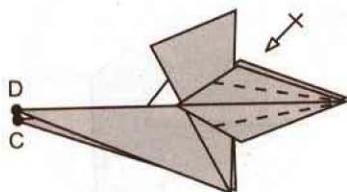
7. Three reverse  
folds.



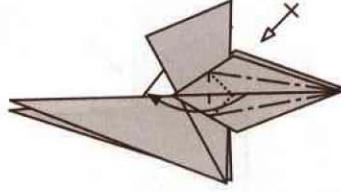
8. Rabbit ear on  
the flaps A & B.



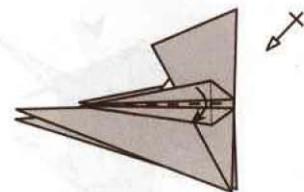
9. Squash Fold.  
Repeat behind.



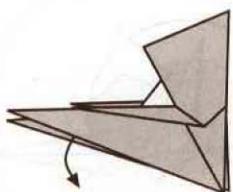
10. Fold and unfold.  
Repeat behind.



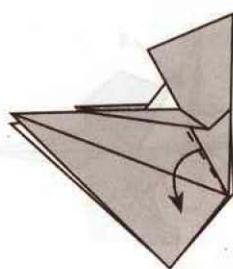
11. Petal-fold.  
Repeat behind.



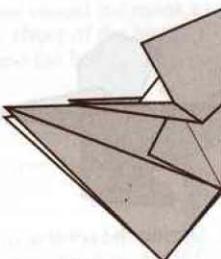
12. Valley fold.  
Repeat behind.



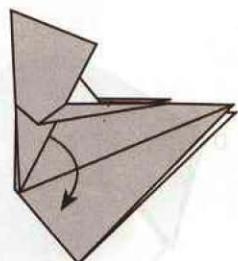
13. Pull the loose paper out.



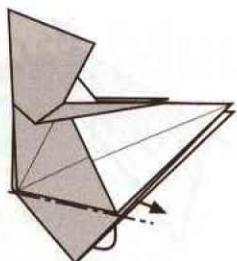
14. Unfold the hidden flap.



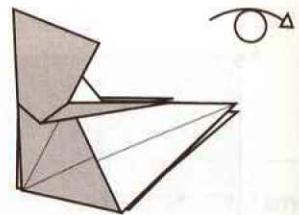
15. Turn the paper over.



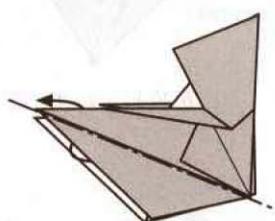
16. Unfold the hidden flap.



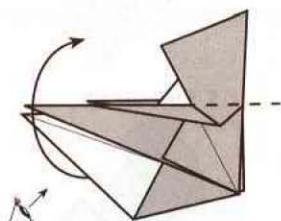
17. Reverse fold.



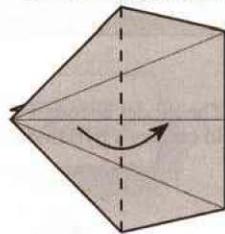
18. Turn the paper over.



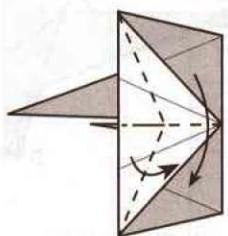
19. Reverse fold the flap.



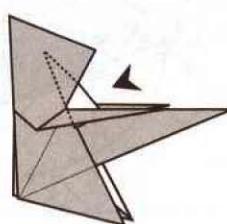
20. Open the model.



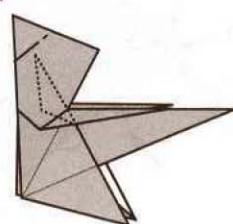
21. Valley fold.



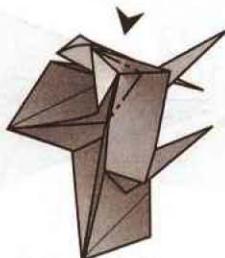
22. Fold the flap.  
Turn the paper over.



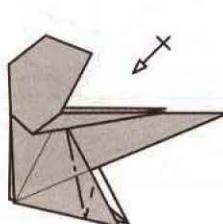
23. Sink the white flap  
inside the model.



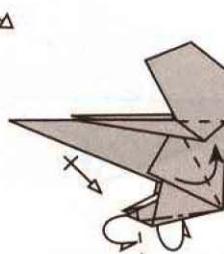
24. Sink the top of the head.  
See the next step.



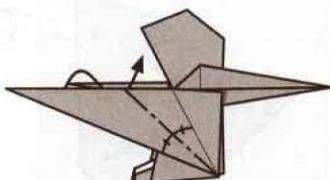
25. Work in progress.



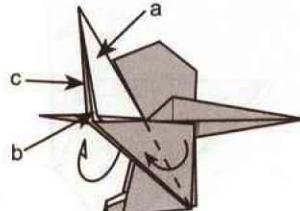
26. Crimp the feet.  
Turn the paper over.



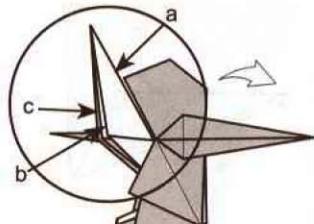
27. Fold the feet. Then open  
the left arm and valley  
fold the first flap.



28. During the reverse fold,  
put 2 flaps on front (see the  
flaps a & b on the next step)  
and one behind (flap c).

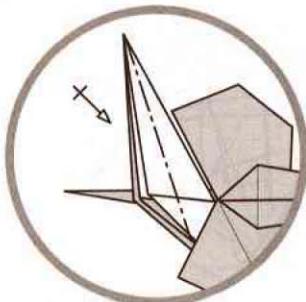


29. Insert the coloured flap  
behind the flap a.

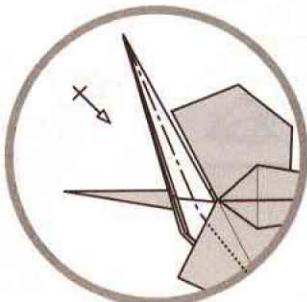


30. The flaps b & c will be  
now fold together as one flap.

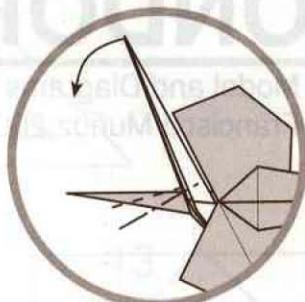
[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)



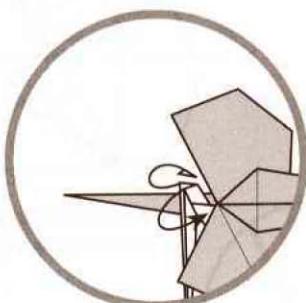
31. Mountain fold and repeat behind  
(Enlarged view).



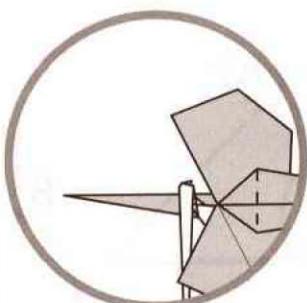
32. Continue to refine the stick from the top to the base.  
Repeat behind.



33. Reverse fold.



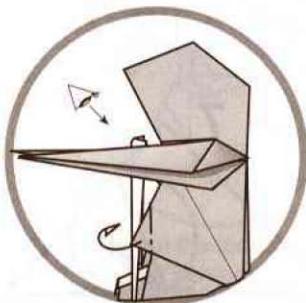
34. Model the stick.



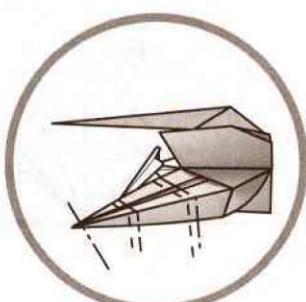
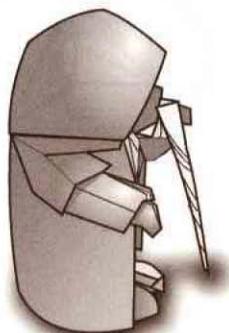
35. Valley fold the arm.



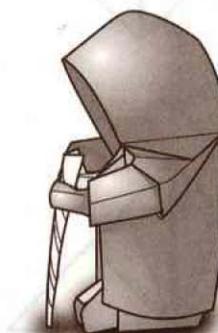
36. Open only the upper flap.  
The arm becomes 3D.



37. Mountain fold the flap.



38. Crimp the arms. Then repeat steps 34 to 36 on the other arm.



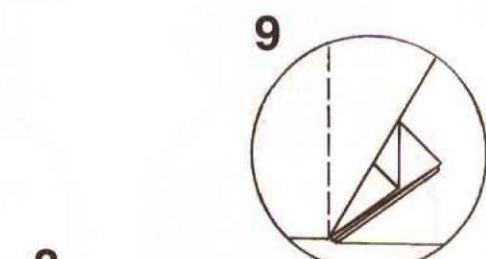
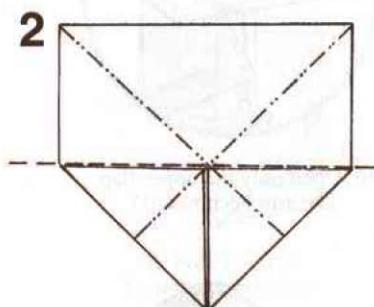
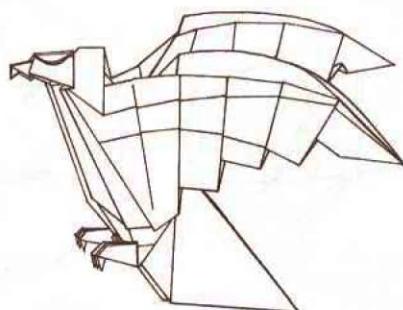
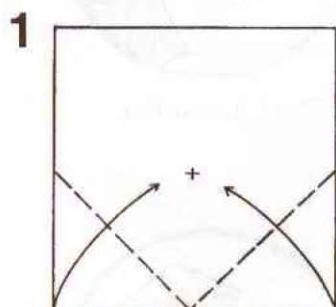
Creation & Diagram : N. Terry  
April 2003

<http://design.origami.free.fr>

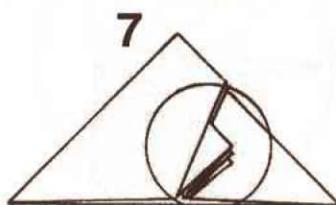
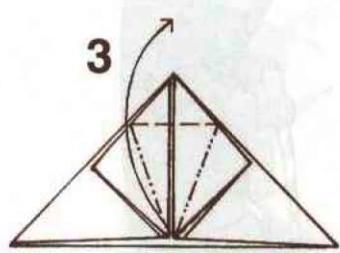
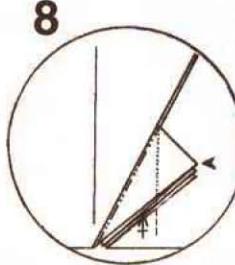
コンドル／フランシスコ・ムノス (コロンビア)

# CONDOR

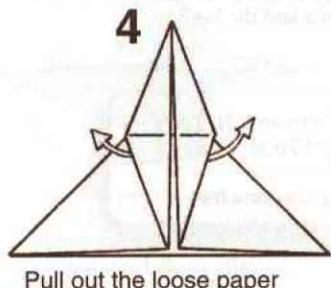
Model and Diagrams by  
Francisco Muñoz 2003



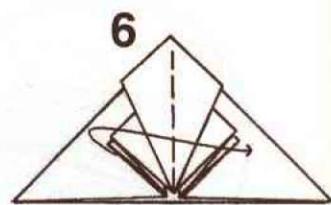
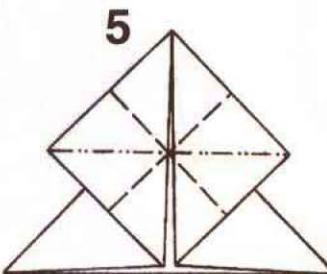
Return the layers  
folded on step 6



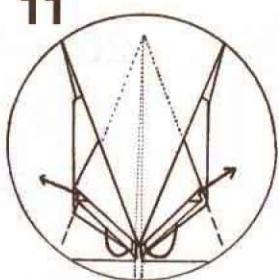
Lift top layer along the creases



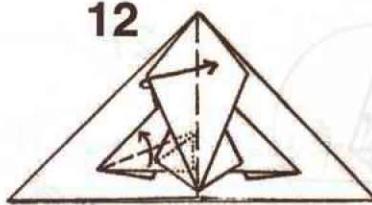
Pull out the loose paper



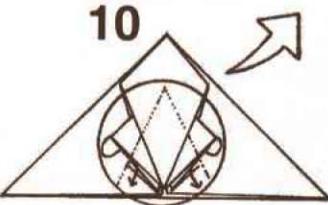
11



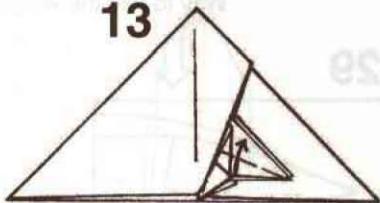
12



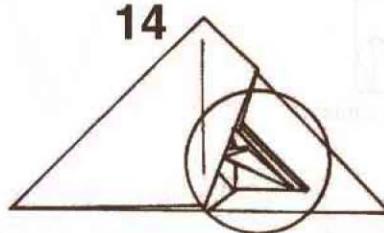
10



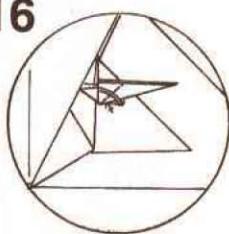
13



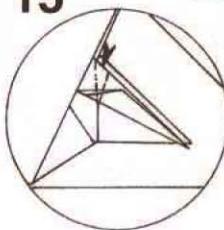
14



16

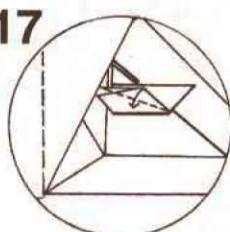


15



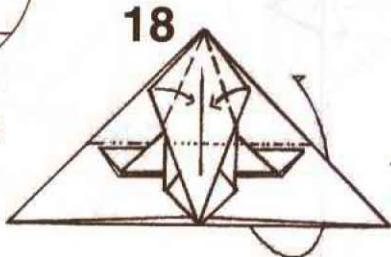
Pull out the loose paper  
Repeat behind

17

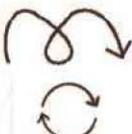
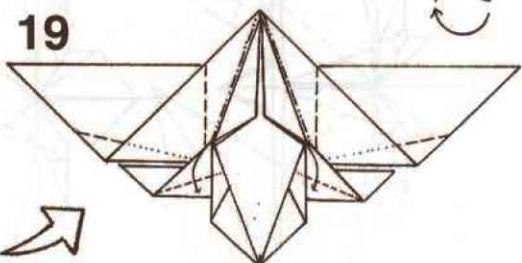


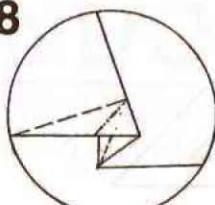
Repeat steps  
12 to 17 behind

18

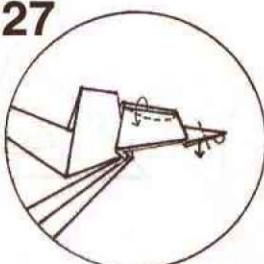
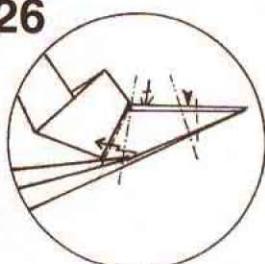
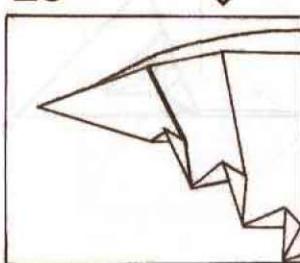


19

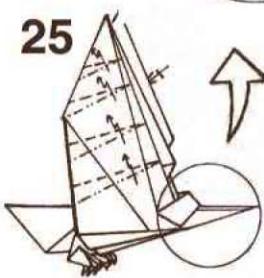
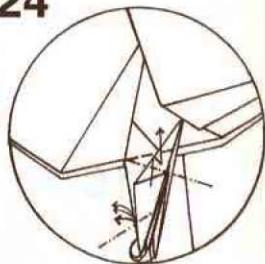


**28**

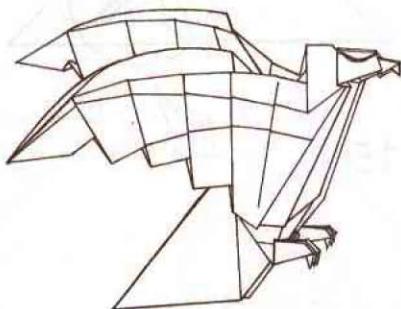
Posterior vision.  
Way to fold the wings

**27****26****29**

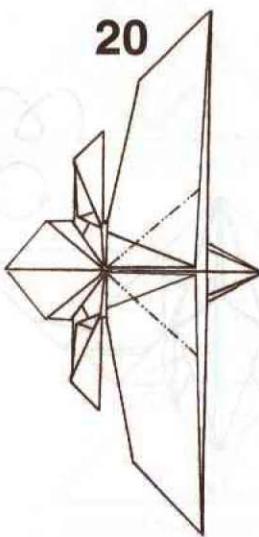
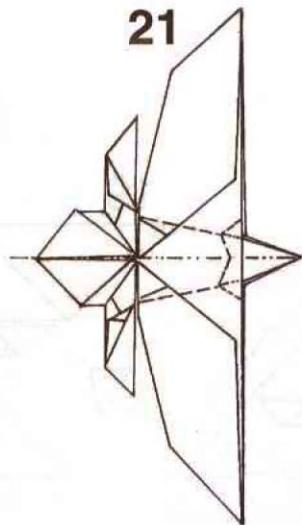
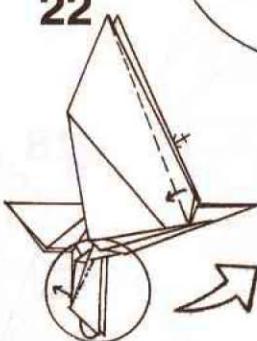
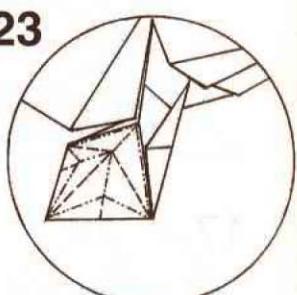
The wings should look like this  
(Posterior avision)

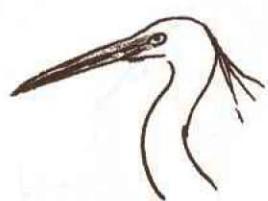
**25****24**

Repeat steps  
22 to 24 on  
the other side



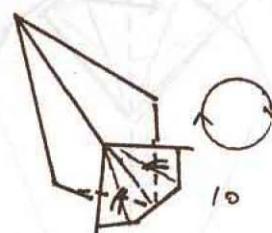
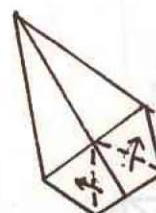
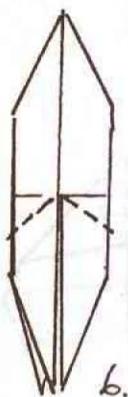
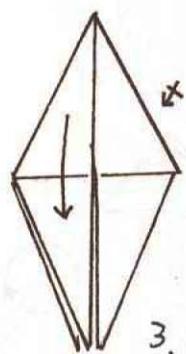
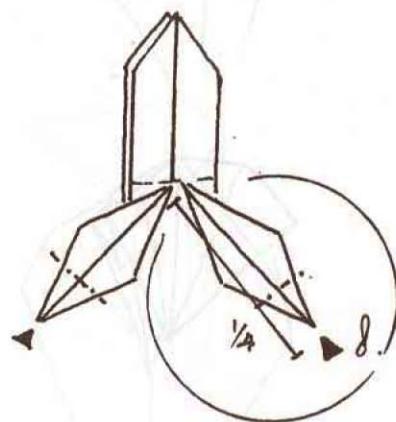
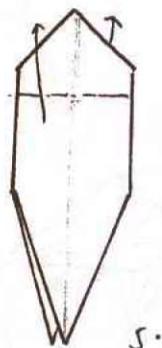
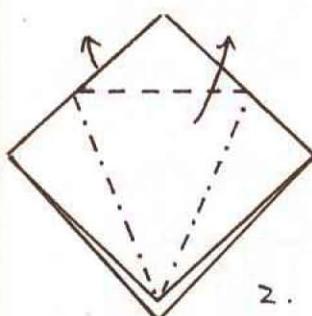
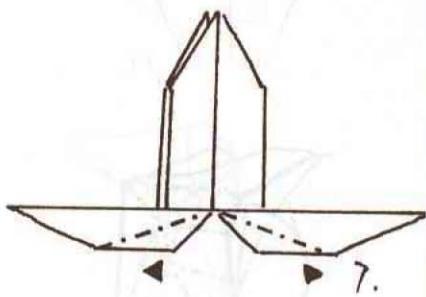
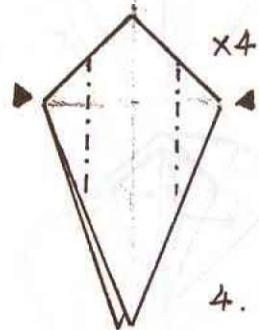
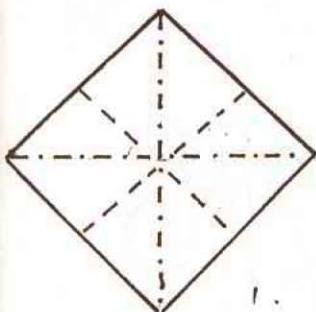
the completed condor

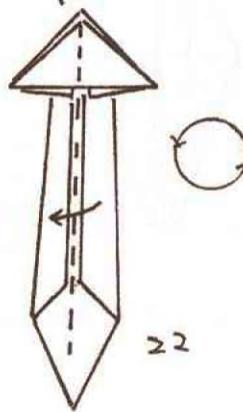
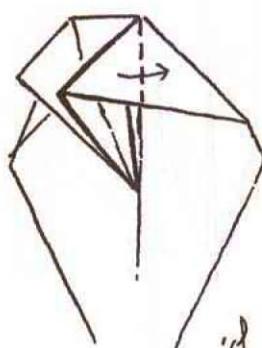
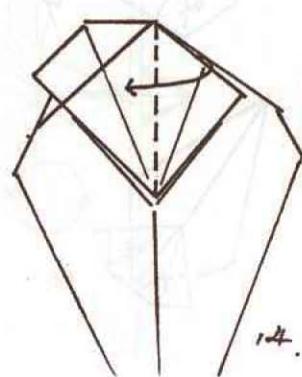
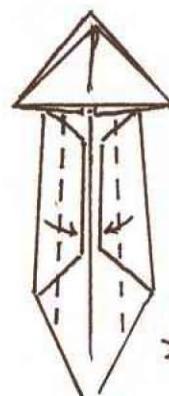
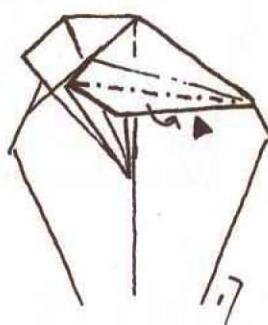
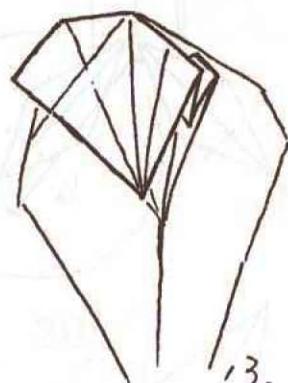
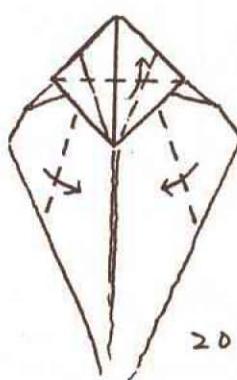
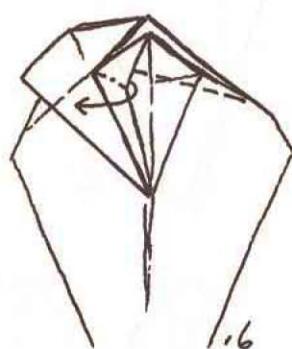
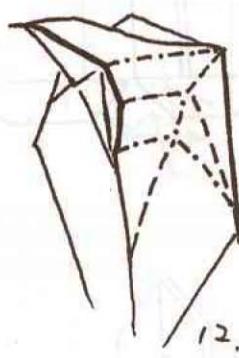
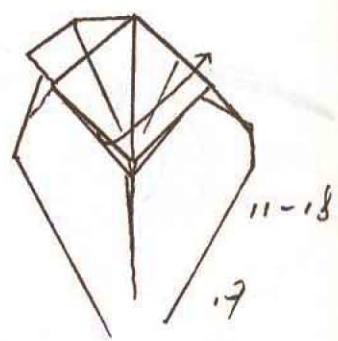
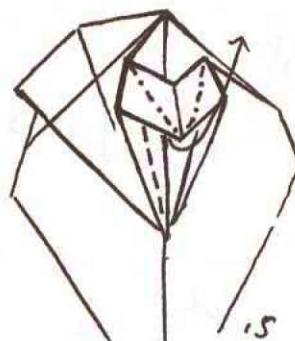
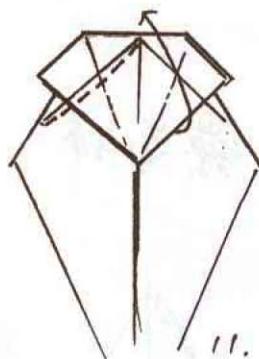
**20****21****22****23**

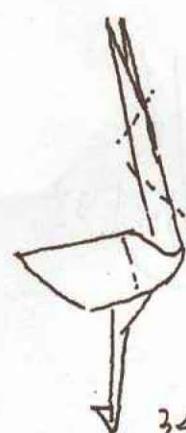
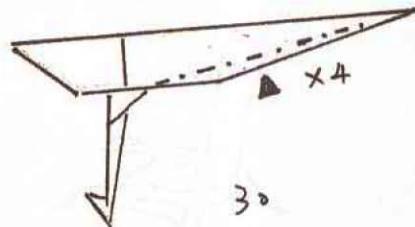
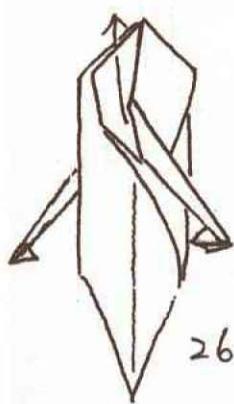
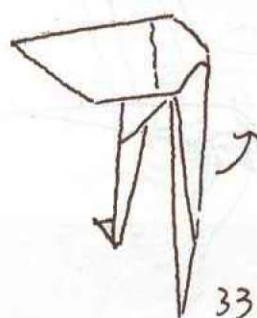
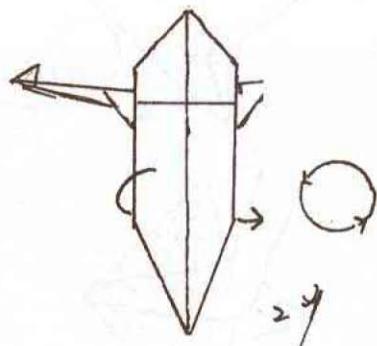
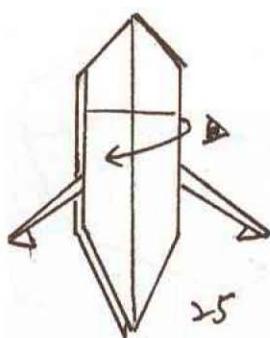
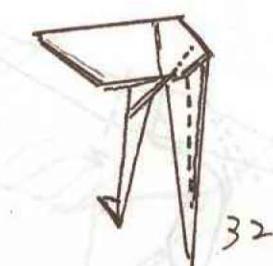
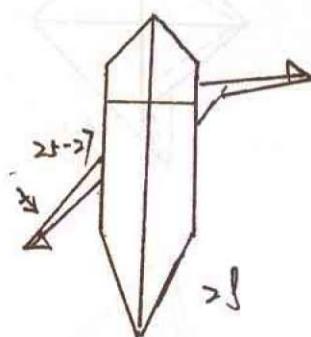
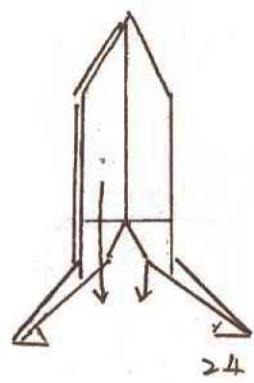
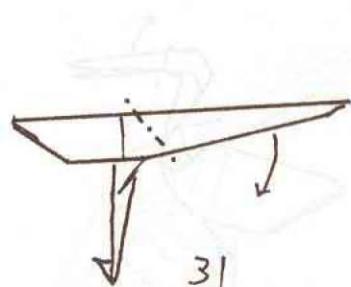
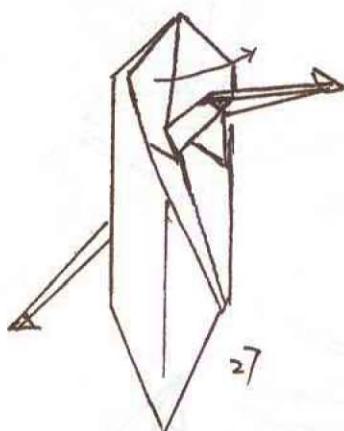
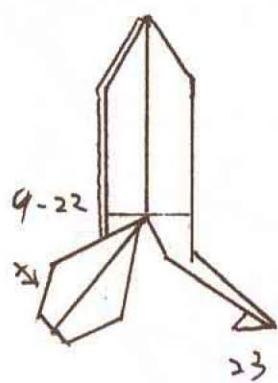


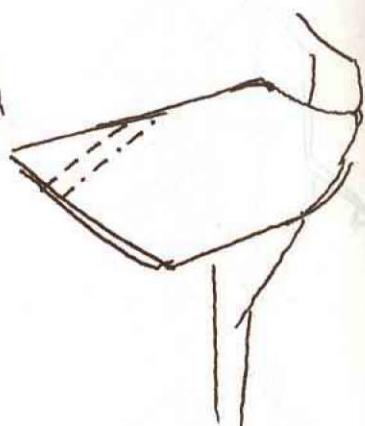
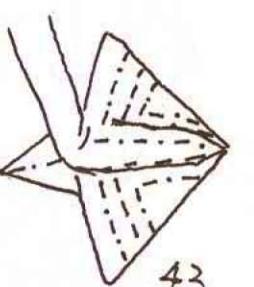
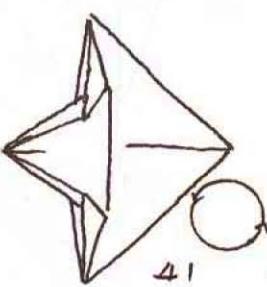
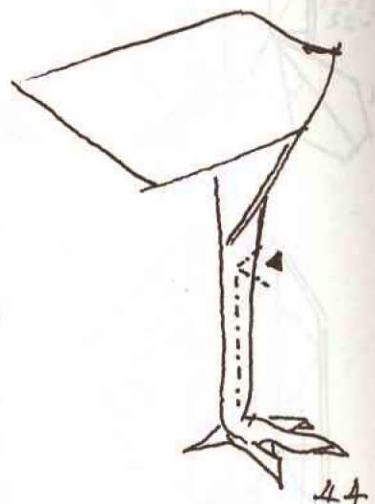
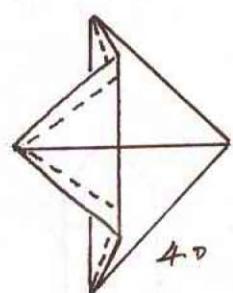
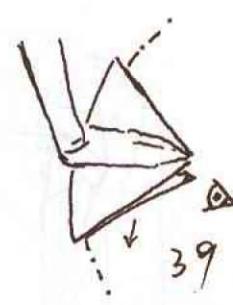
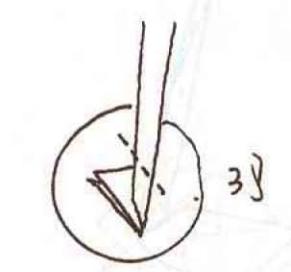
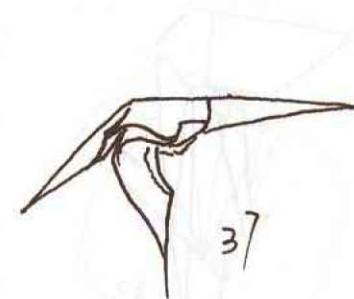
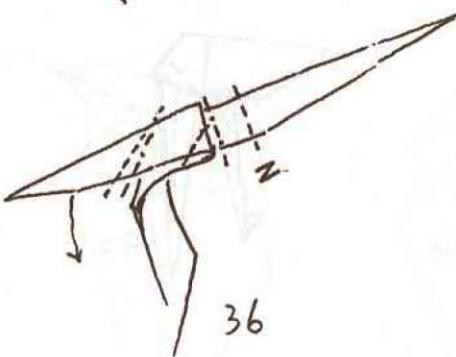
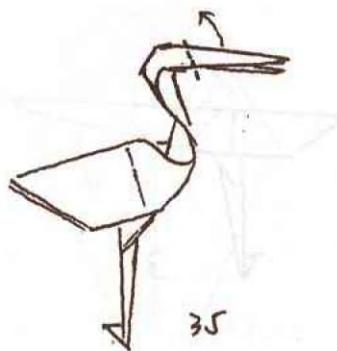
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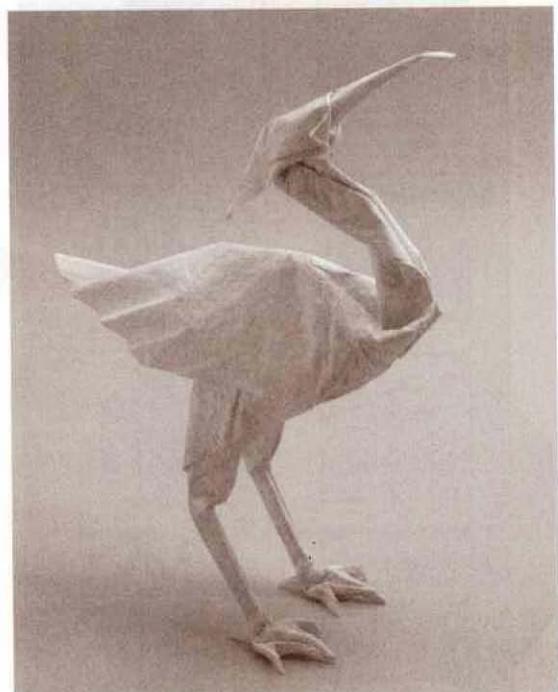
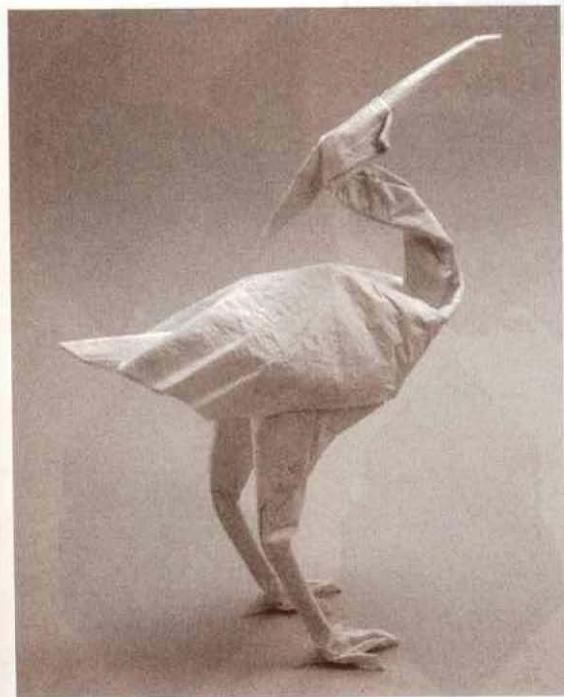
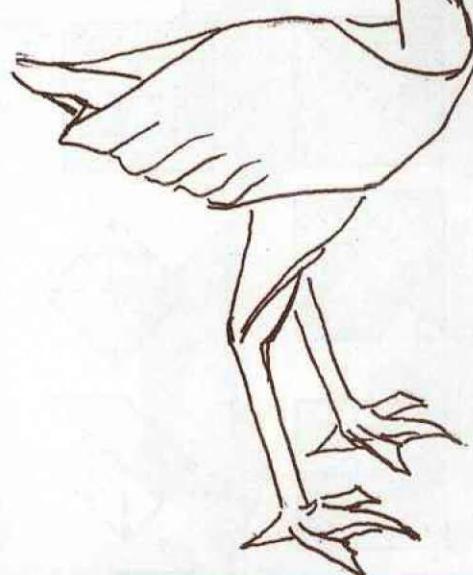
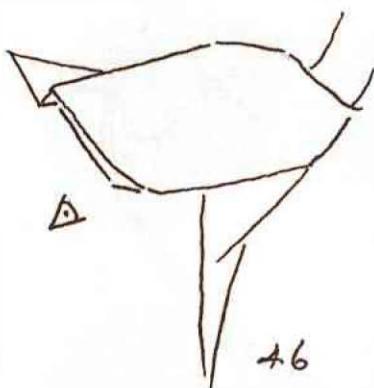
作圖於2003年魏昌詳





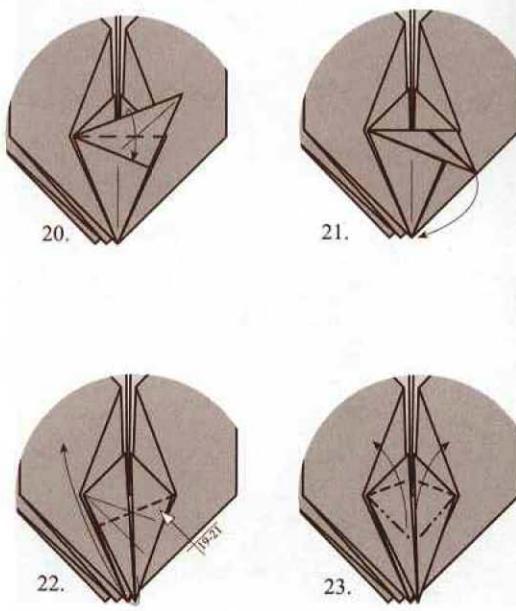
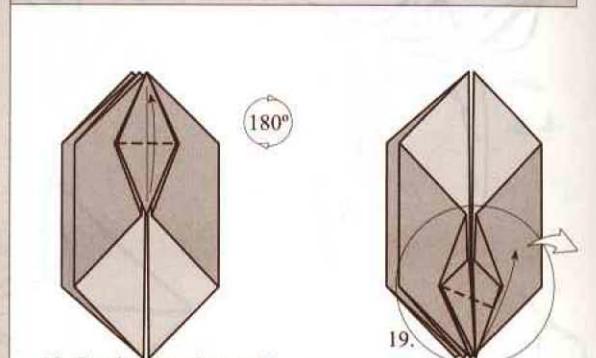
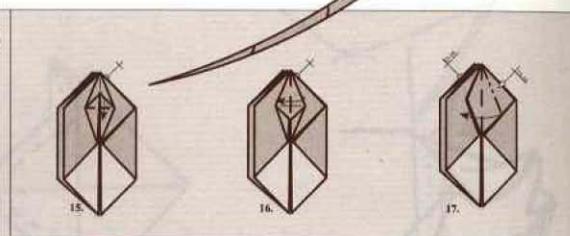
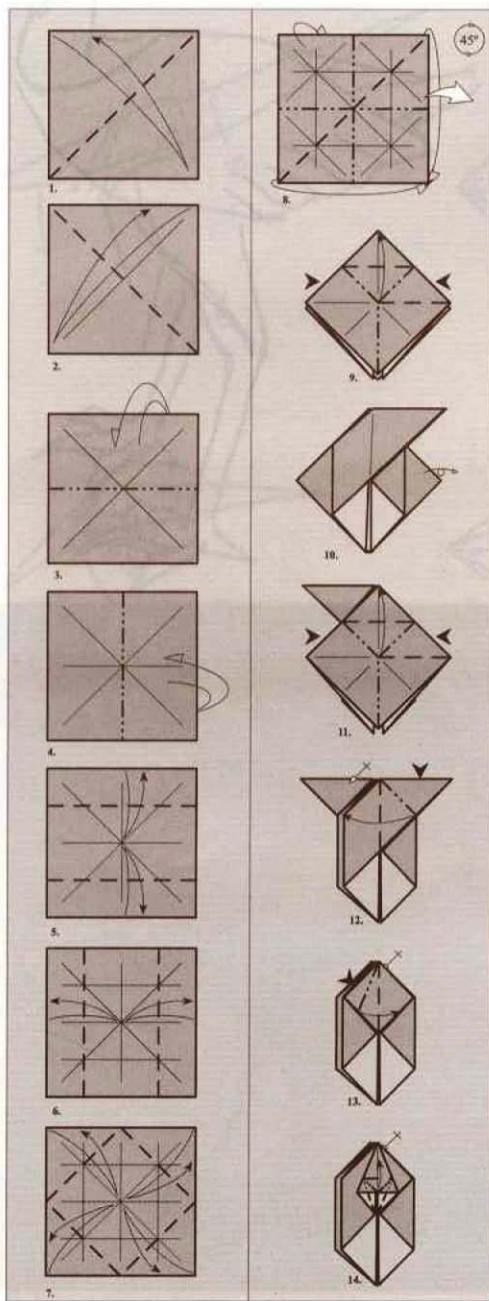
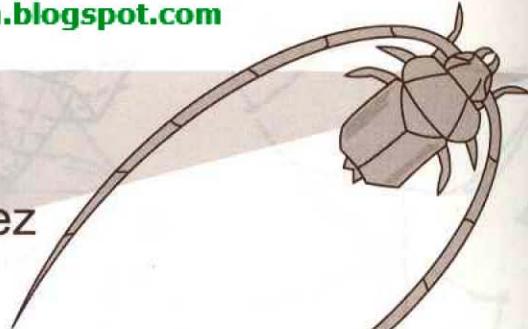


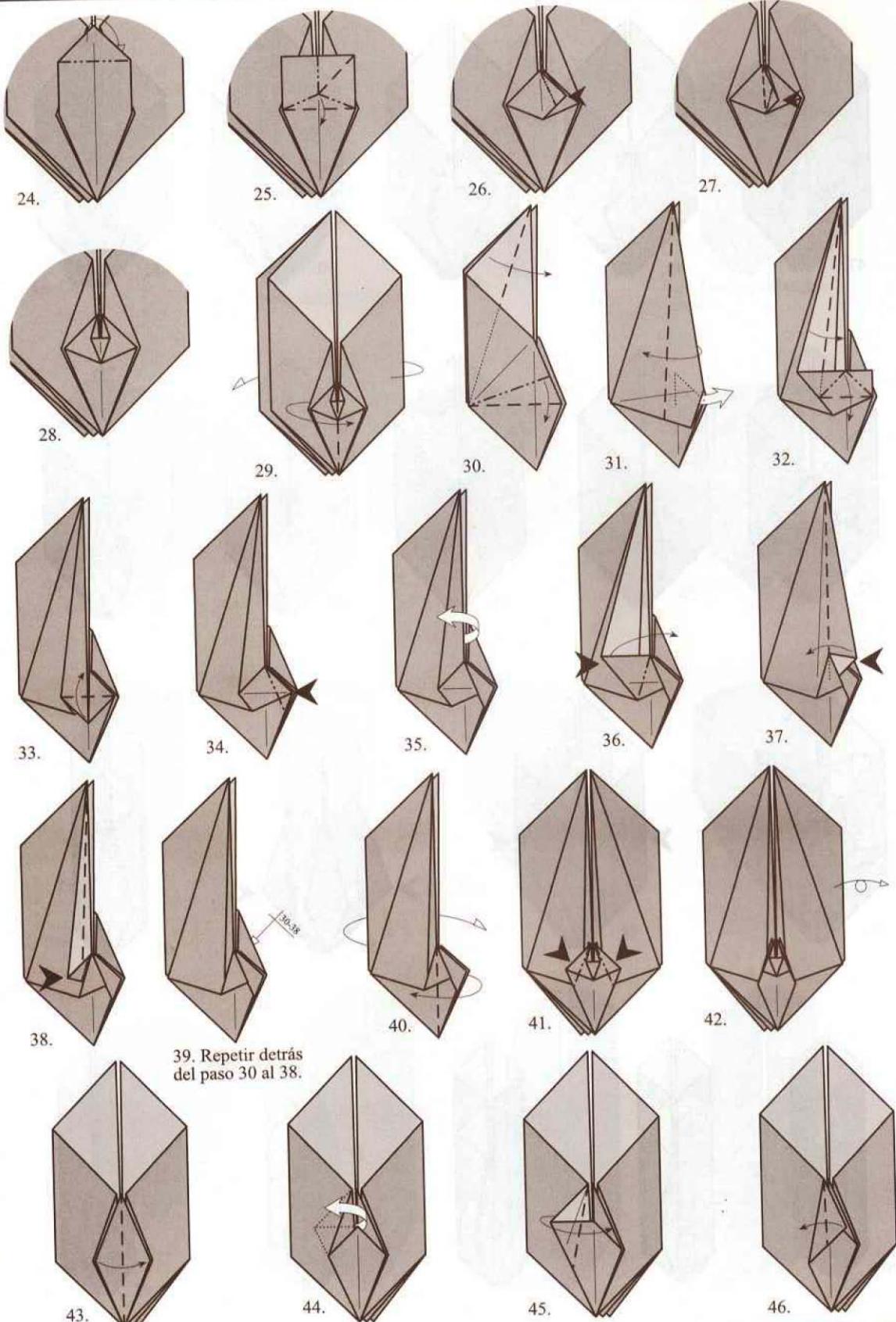




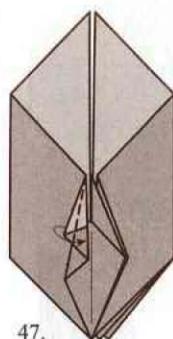
# Acantocino

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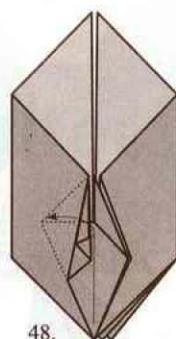




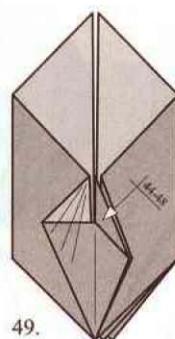
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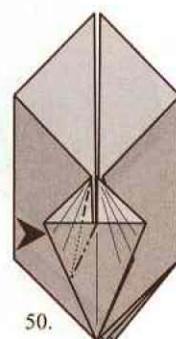
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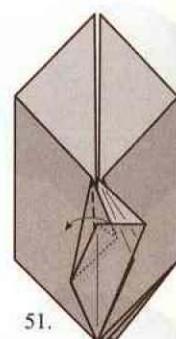
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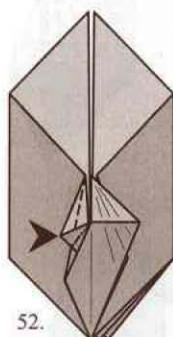
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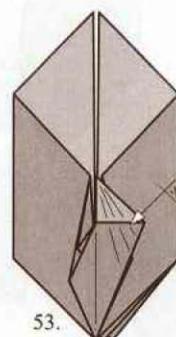
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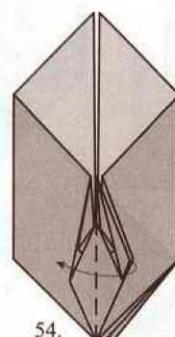
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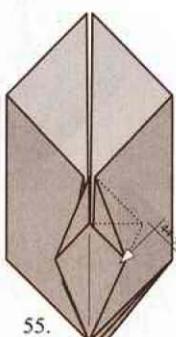
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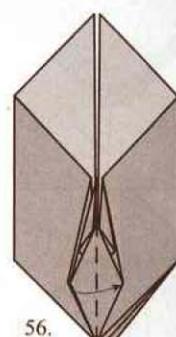
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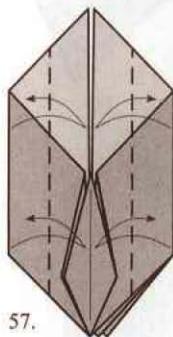
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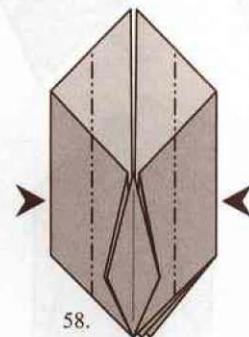
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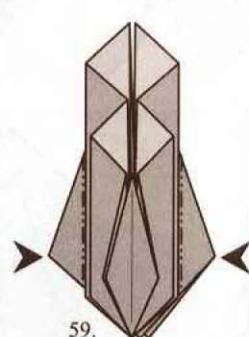
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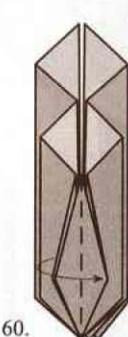
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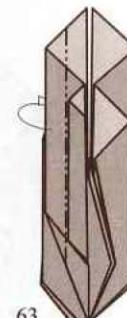
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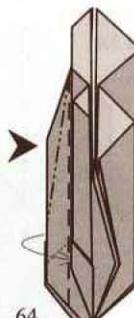
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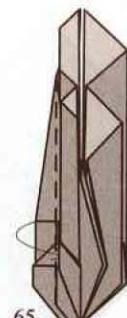
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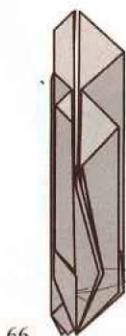
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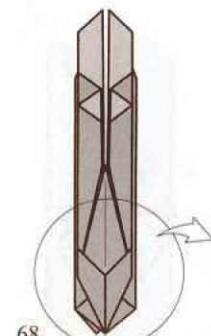
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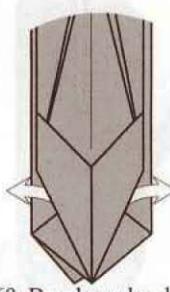
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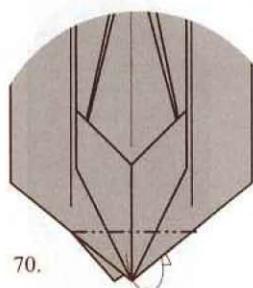
67. Repetir del paso 60 al 66.



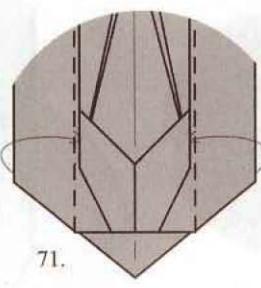
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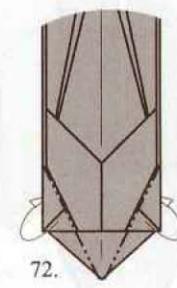
69. Desplegar las dos capas.



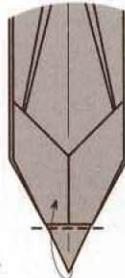
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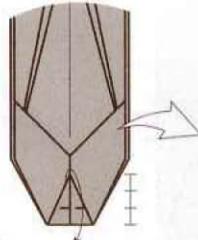
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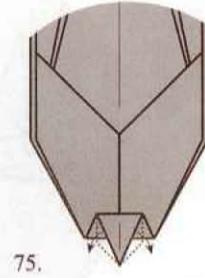
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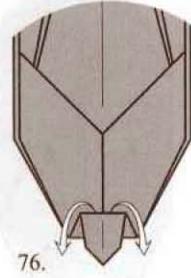
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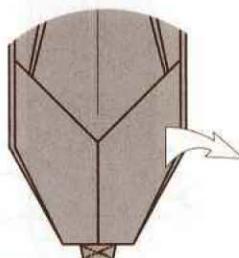
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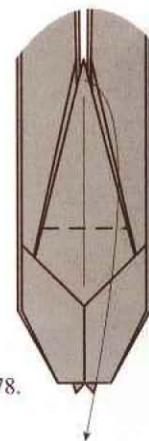
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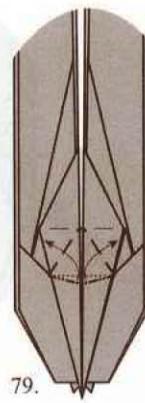
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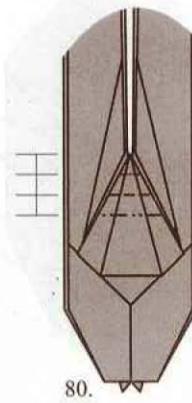
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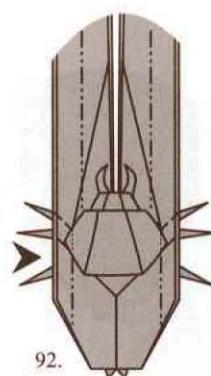
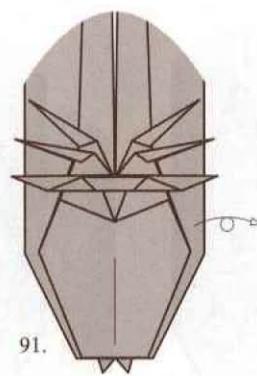
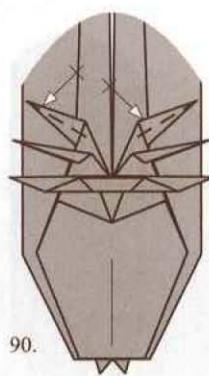
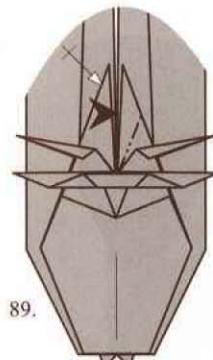
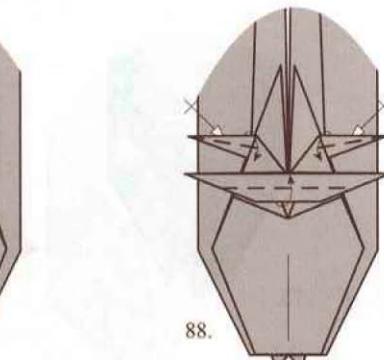
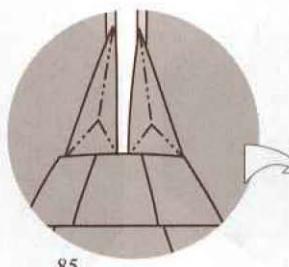
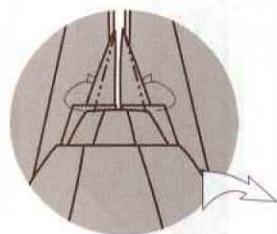
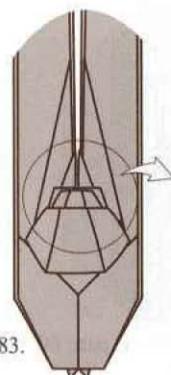
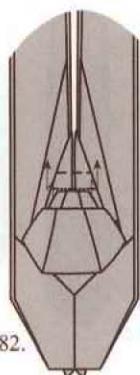
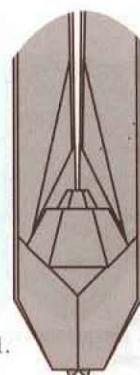
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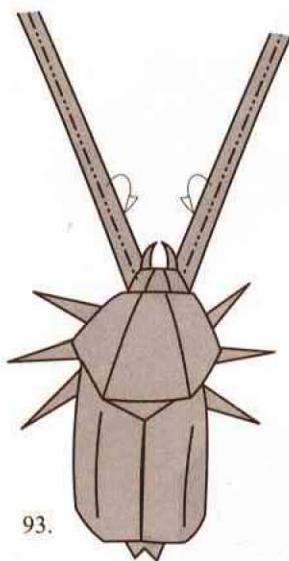


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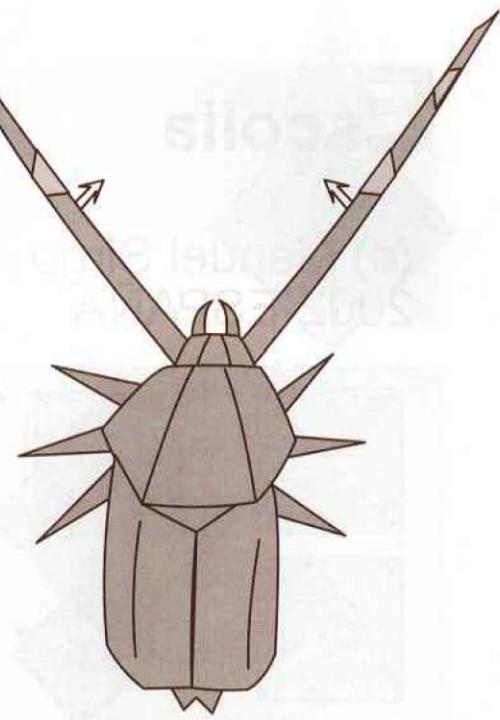


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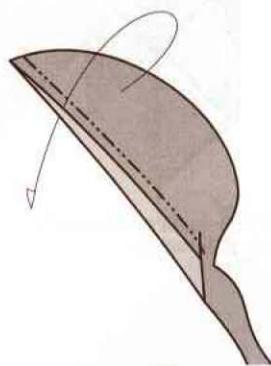




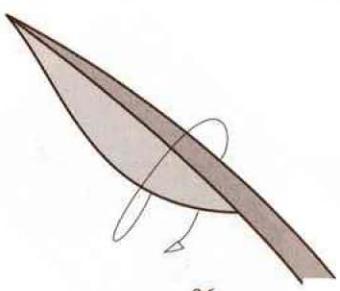
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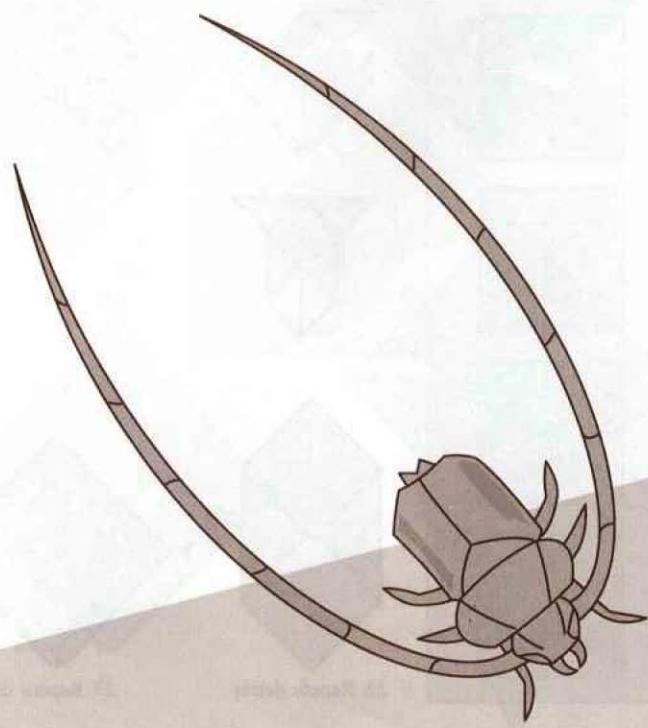
94. Desplegar la antena.



95.

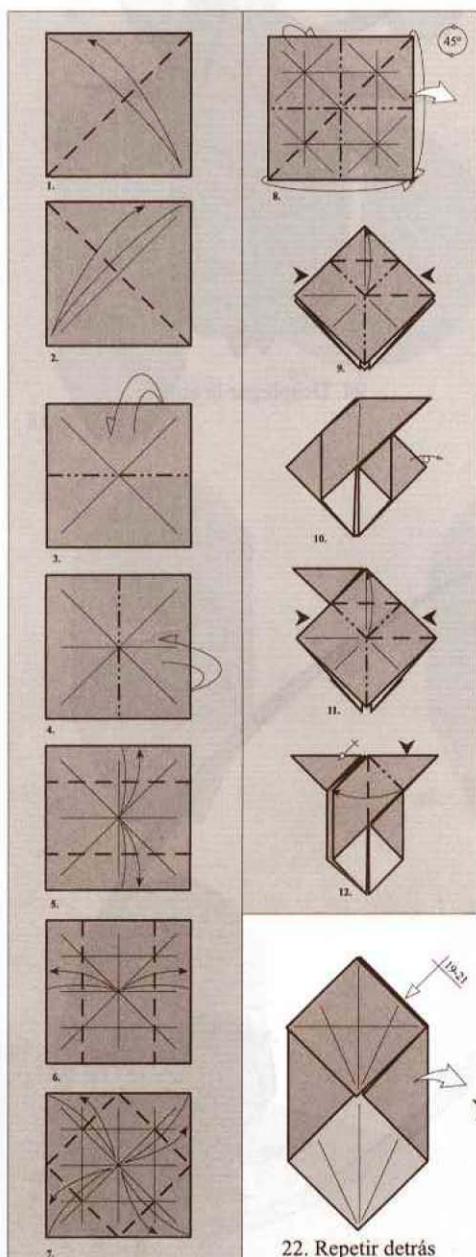
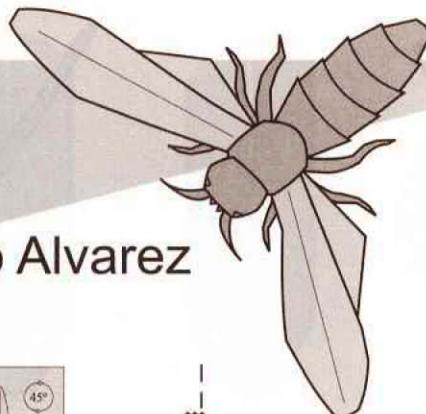


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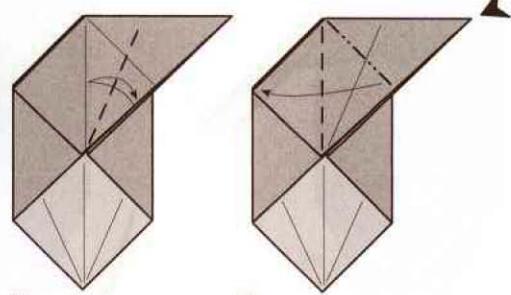
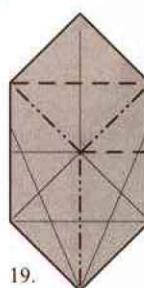
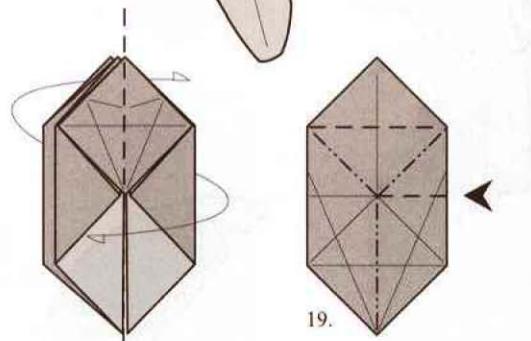


# Escola

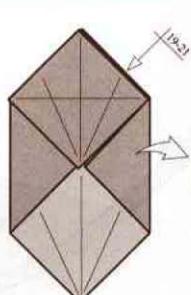
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2002-ESPAÑA



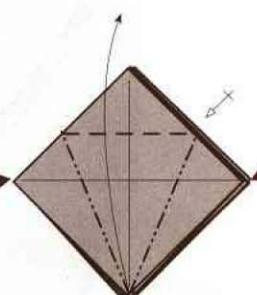
18. Empieza en el paso 12 de la Tabaquera.



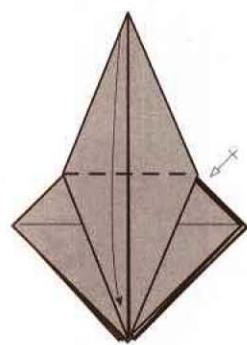
20. 21.



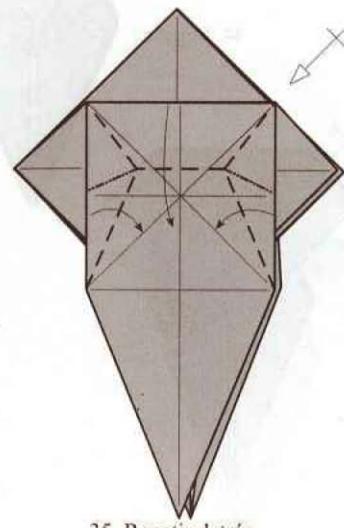
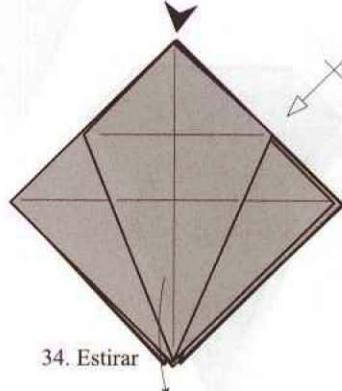
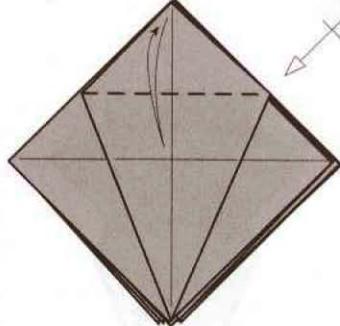
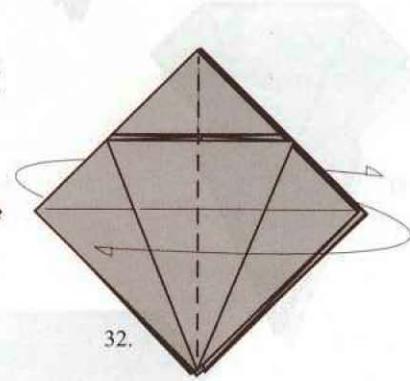
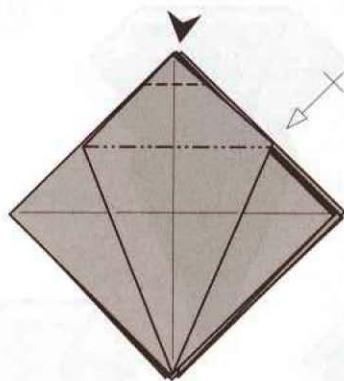
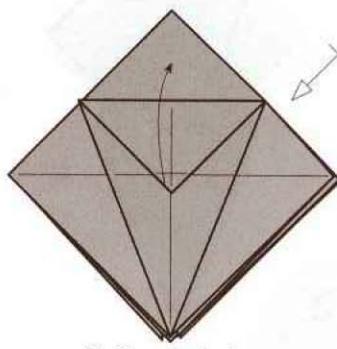
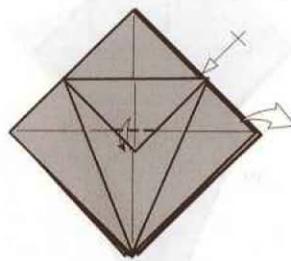
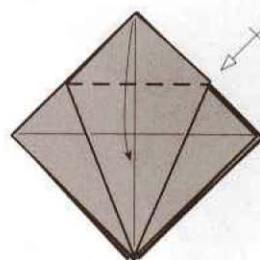
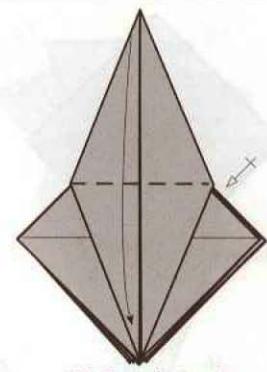
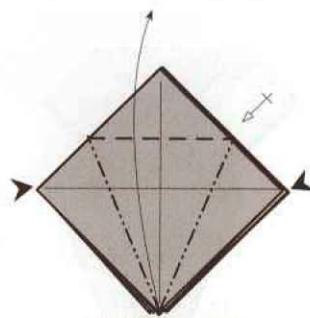
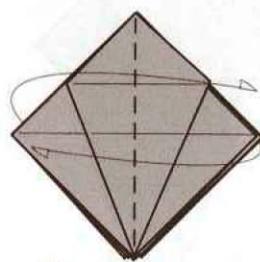
22. Repetir detrás

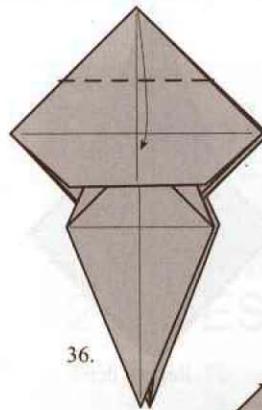


23. Repetir detrás

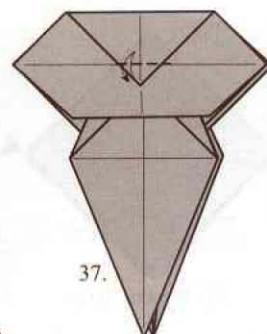


24. Repetir detrás

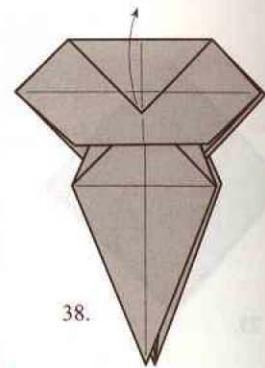




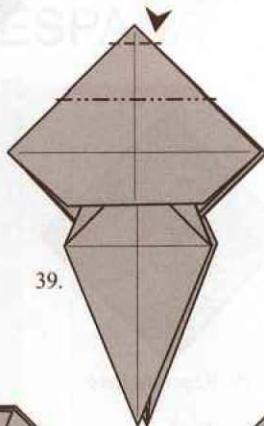
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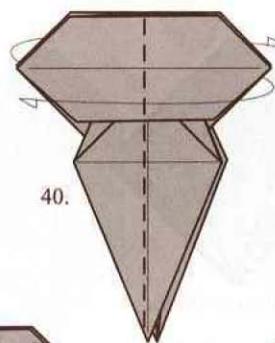
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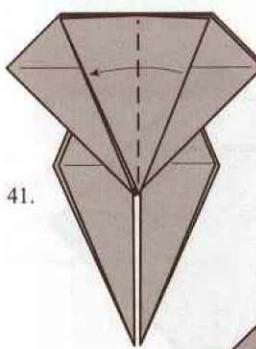
38.



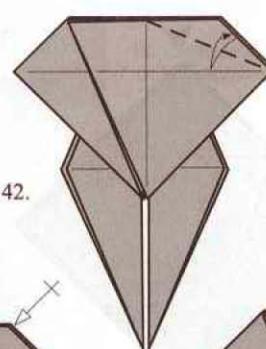
39.



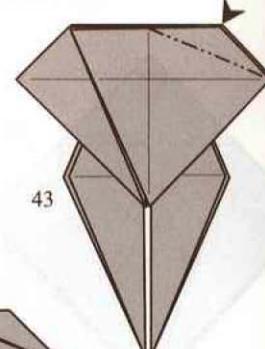
40.



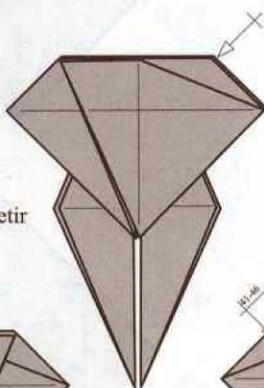
41.



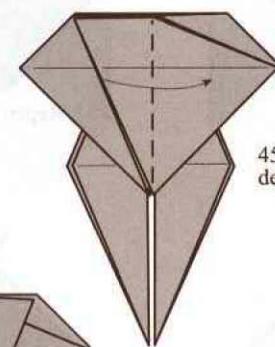
42.



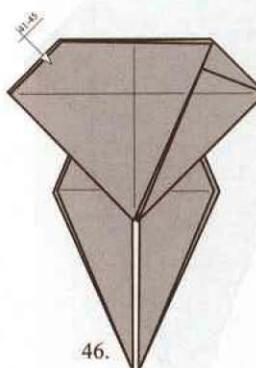
43.



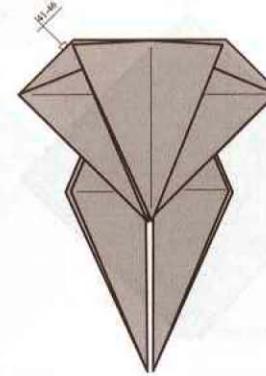
44. Repetir



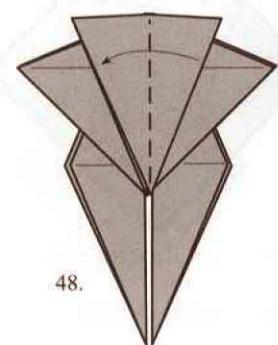
45. Doblar hacia la derecha las dos puntas



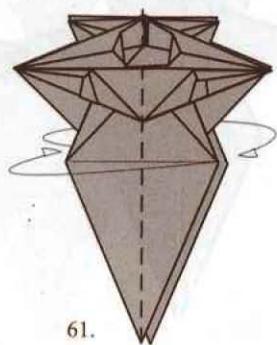
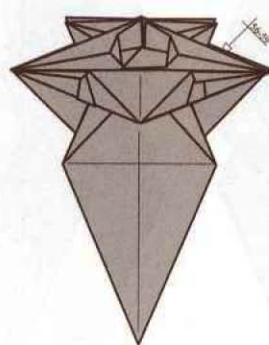
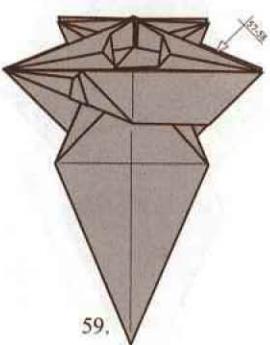
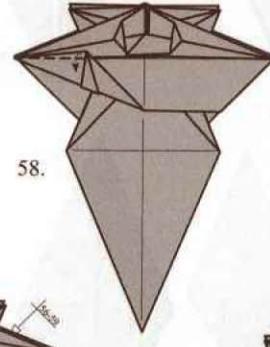
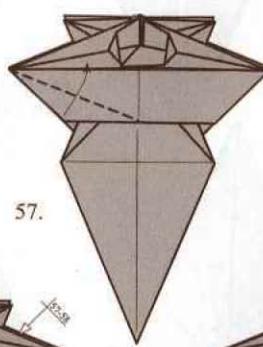
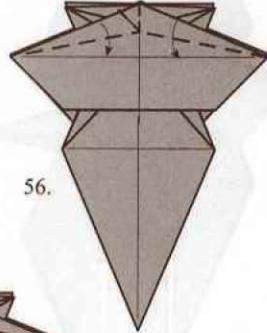
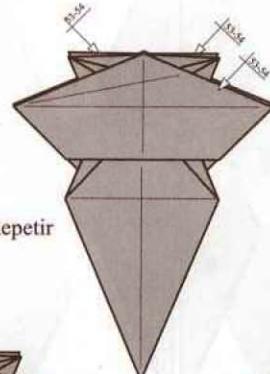
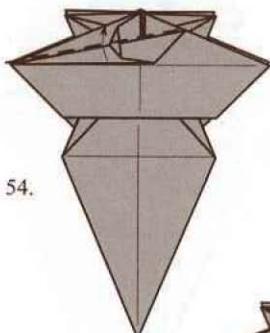
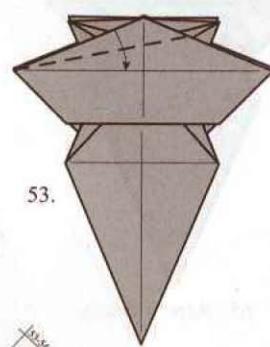
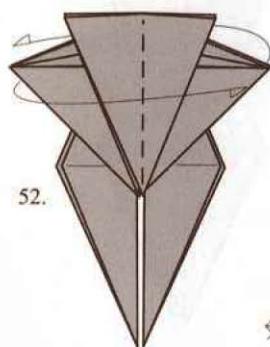
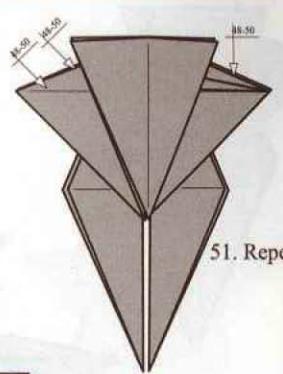
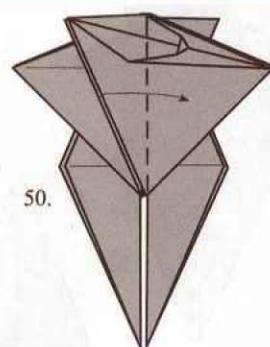
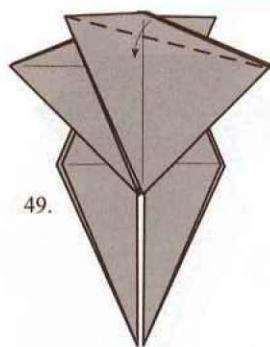
46.



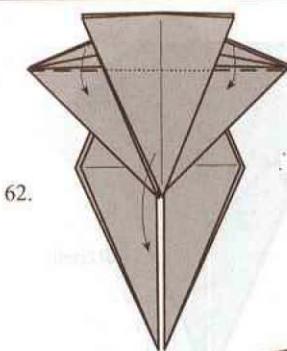
47. Repetir detrás



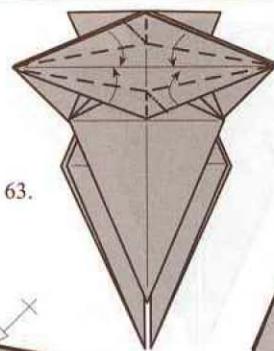
48.



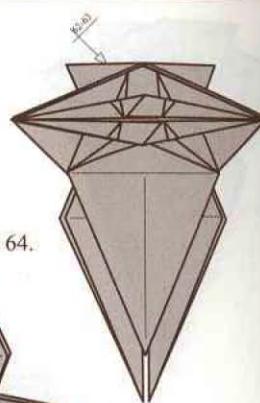
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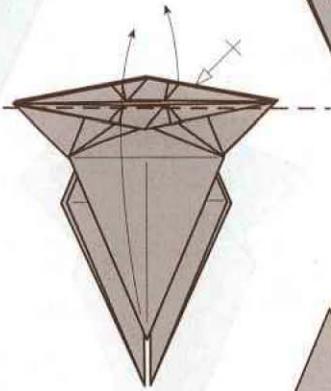
62.



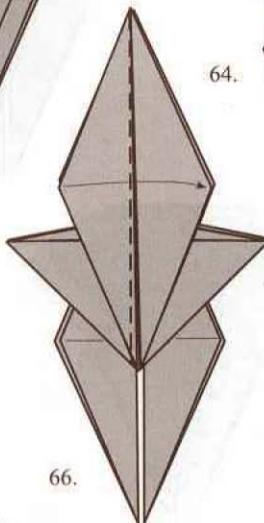
63.



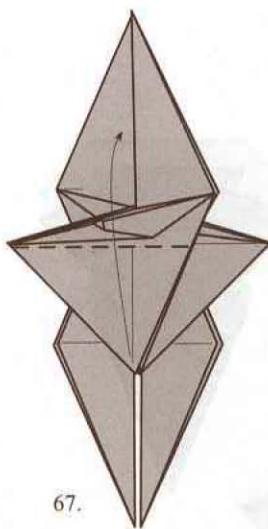
64.



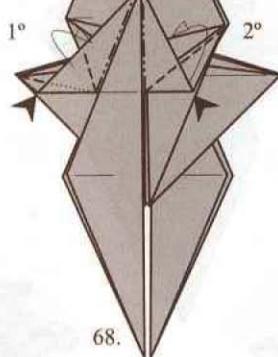
65. Repetir detrás



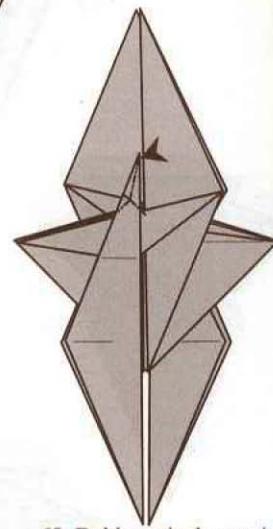
66.



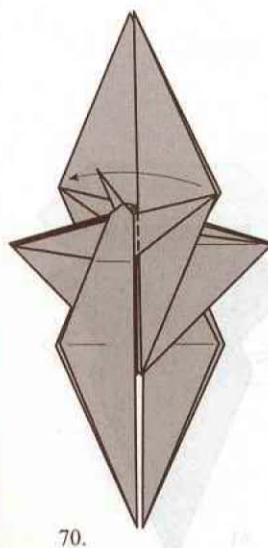
67.



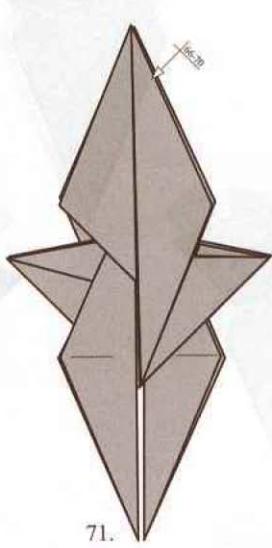
68.



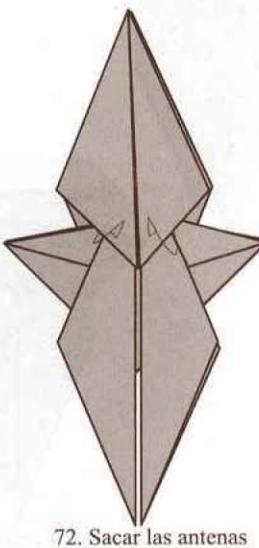
69. Doble oreja de conejo  
(dos capas hacia delante)



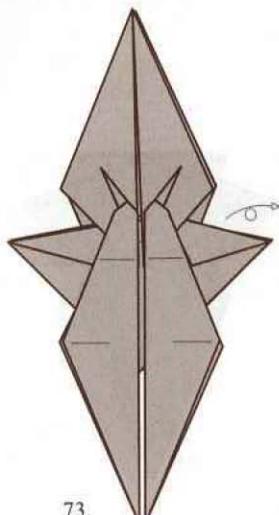
70.



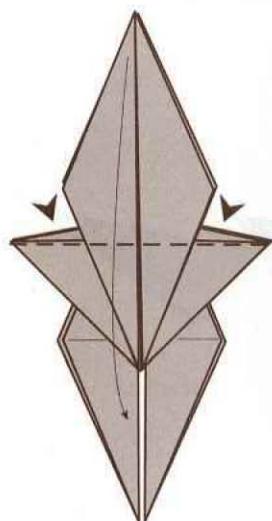
71.



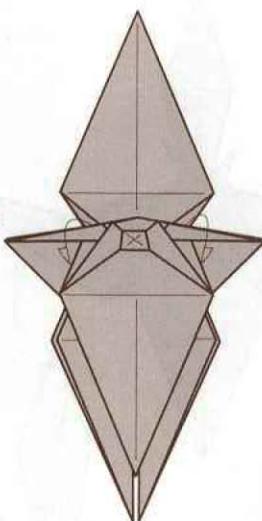
72. Sacar las antenas  
hacia delante



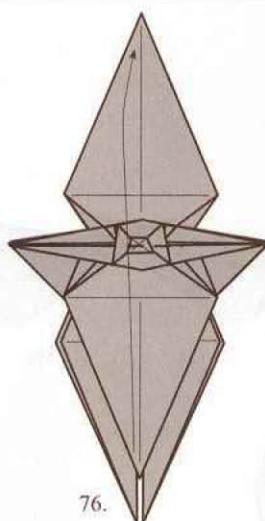
73.



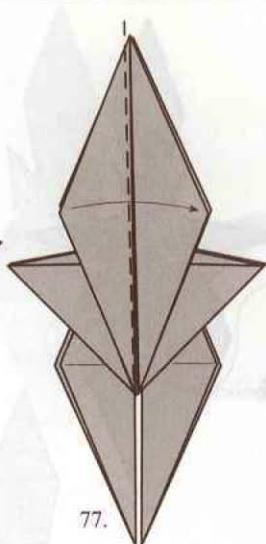
74. Bajar y aplastar el centro



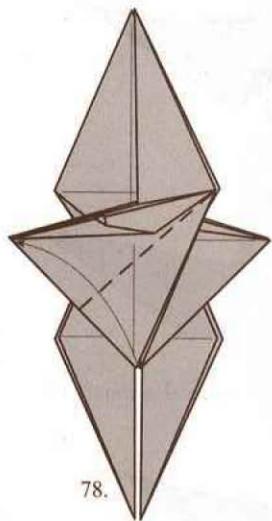
75. Bajar dos capas



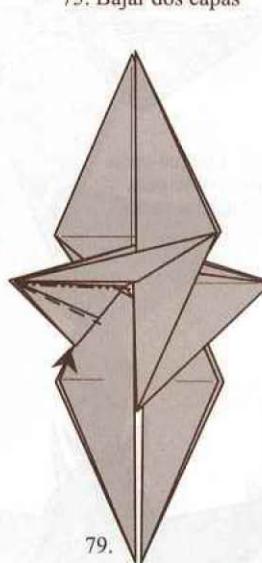
76.



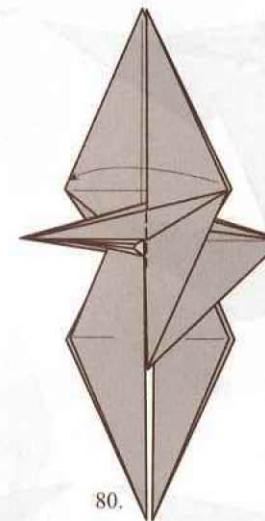
77.



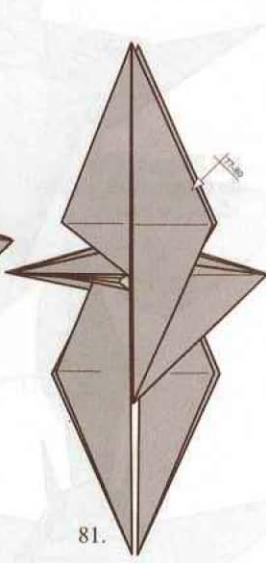
78.



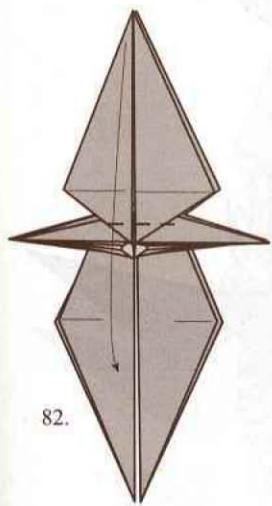
79.



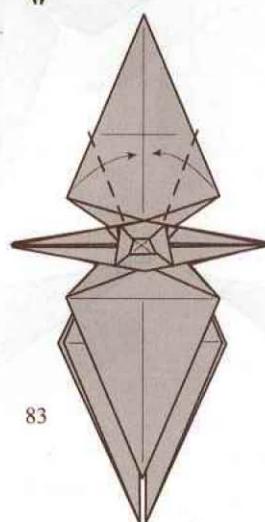
80.



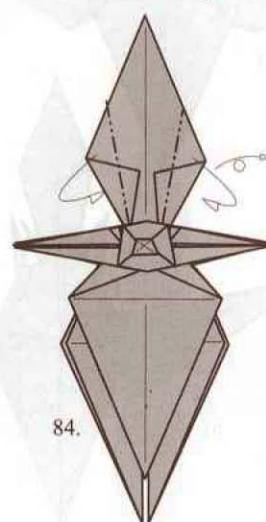
81.



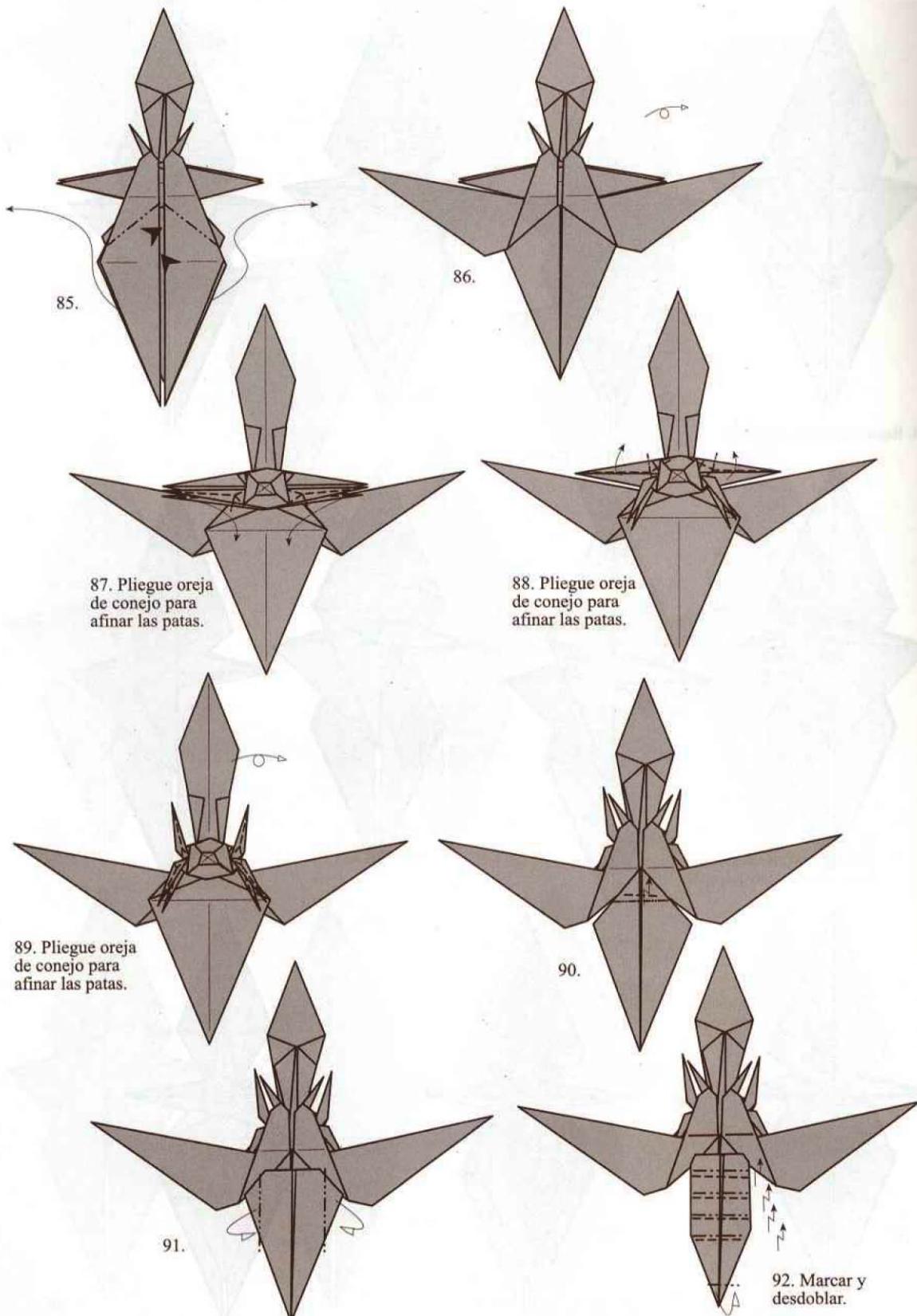
82.

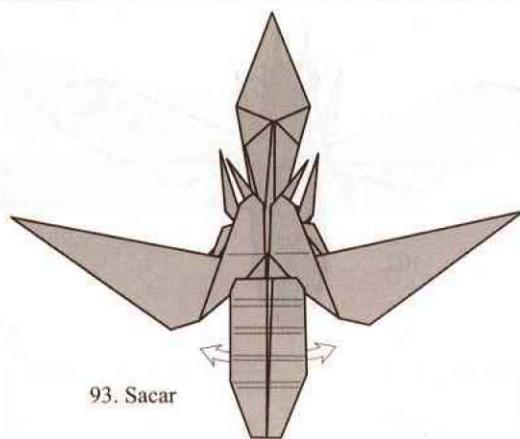


83

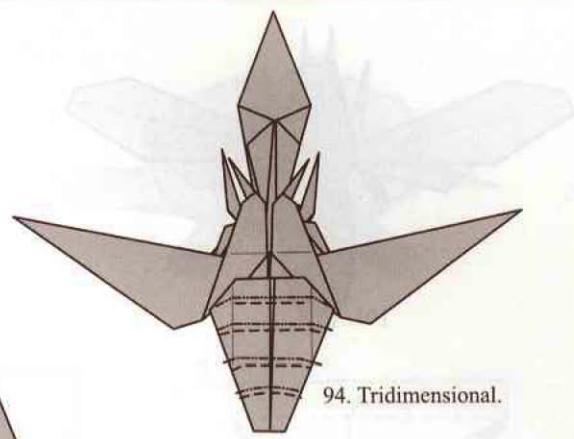


84.

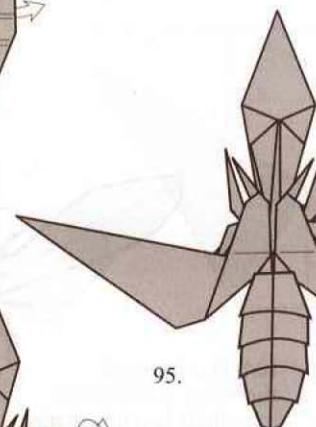




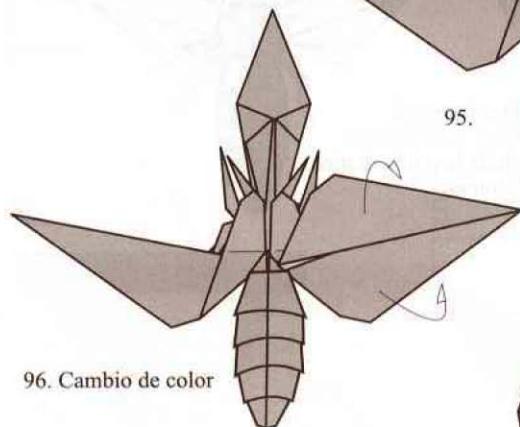
93. Sacar



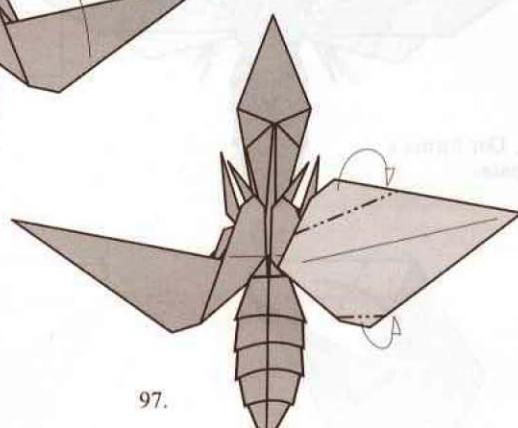
94. Tridimensional.



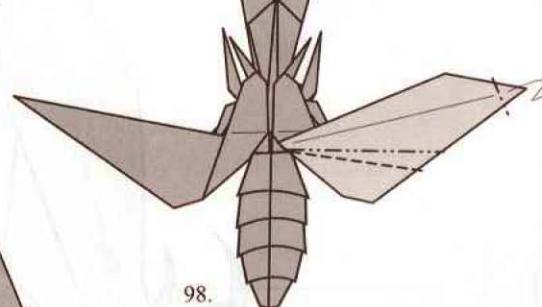
95.



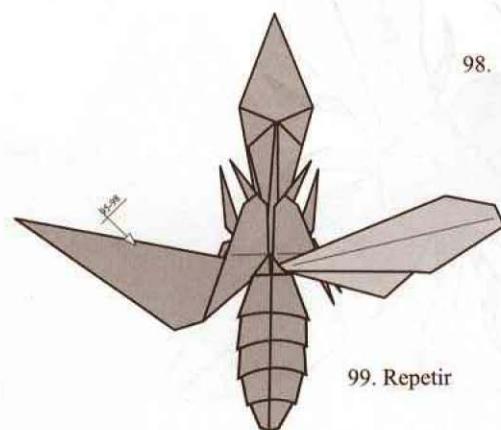
96. Cambio de color



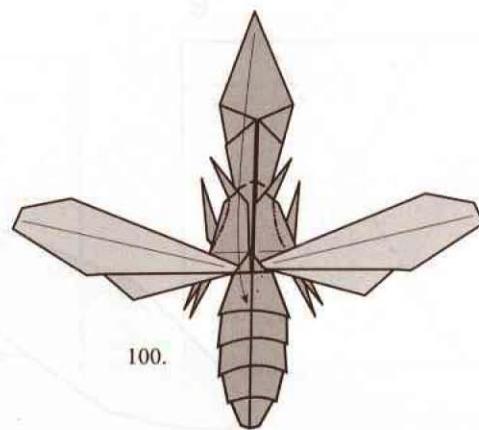
97.



98.

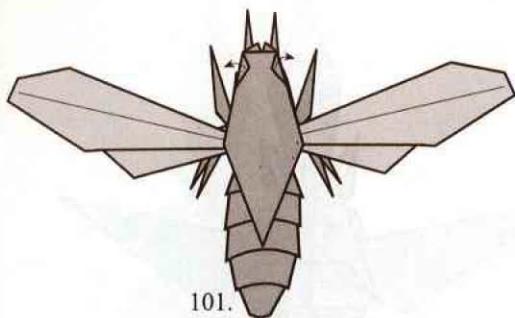


99. Repetir

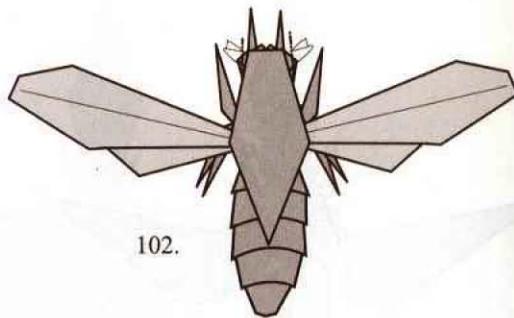


100.

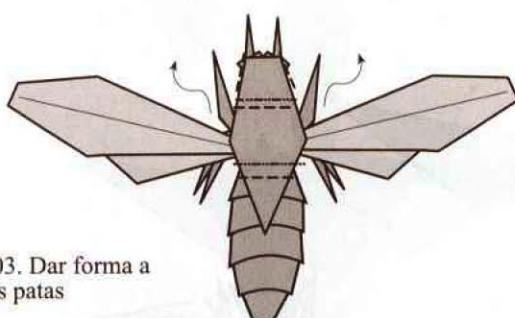
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101.



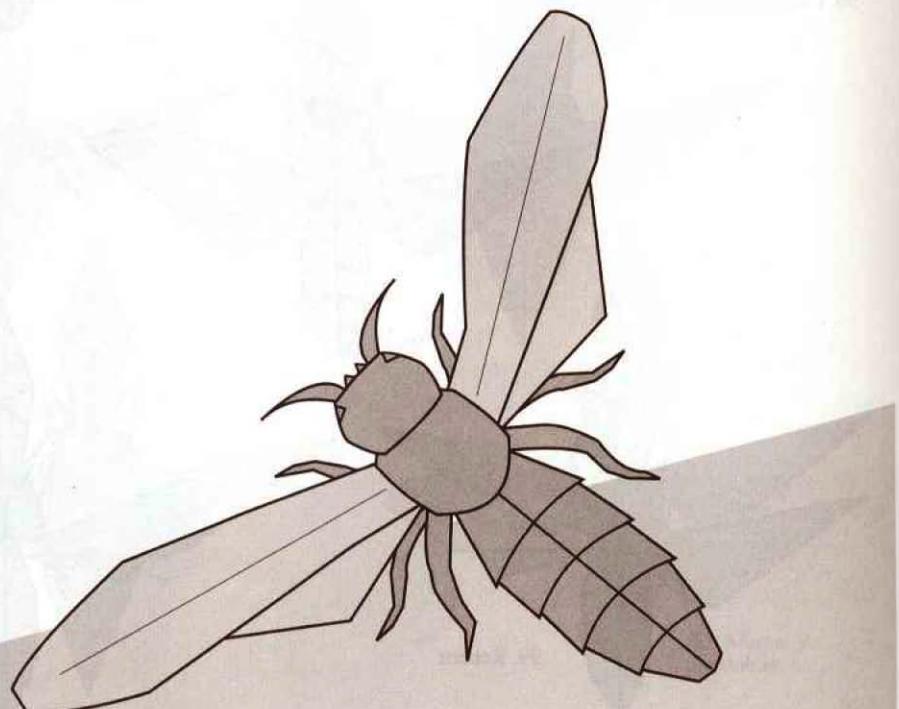
102.



103. Dar forma a  
las patas

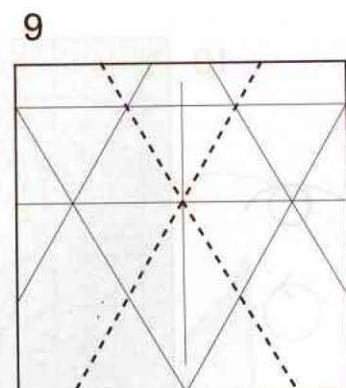
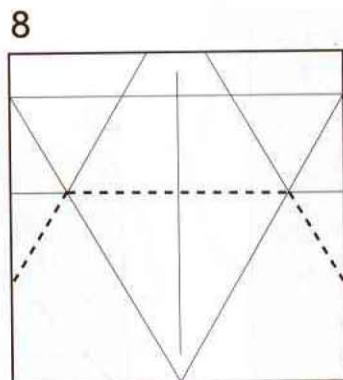
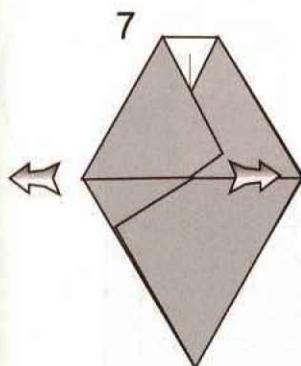
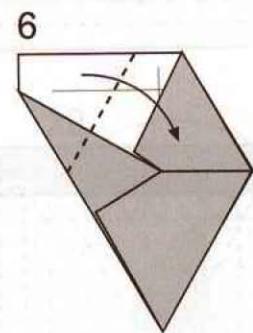
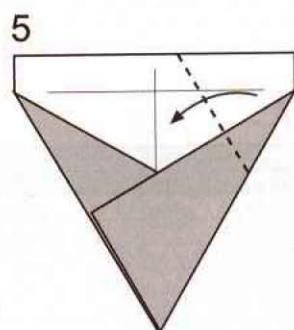
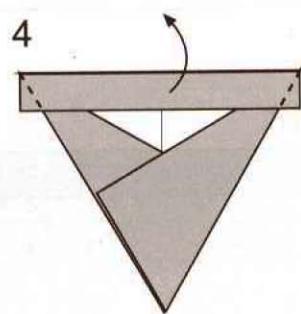
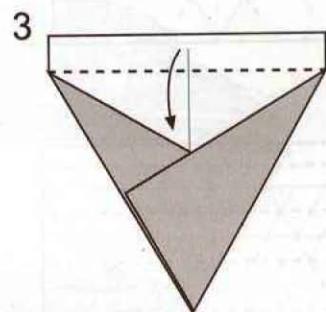
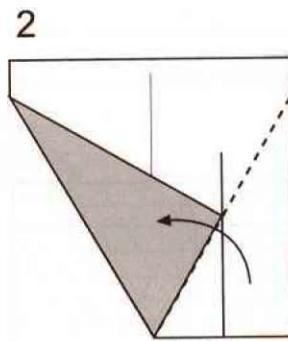
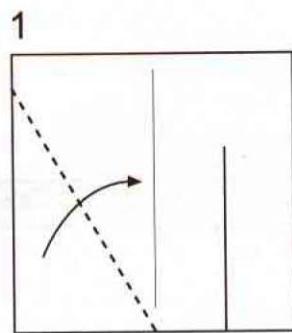
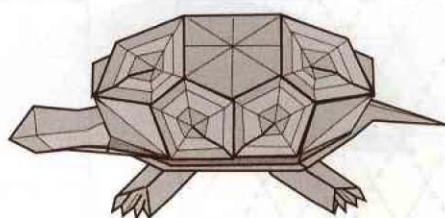


104. Dar forma al  
abdomen y a las alas.  
Introducir la punta dentro  
del abdomen

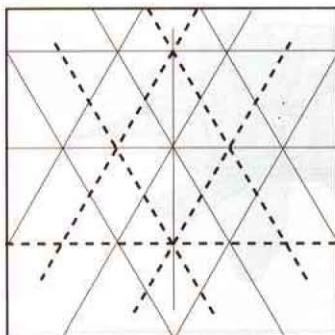


# Turtle

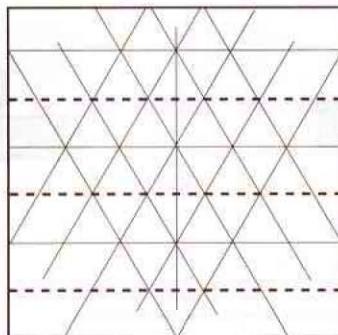
Eran Leiserowitz



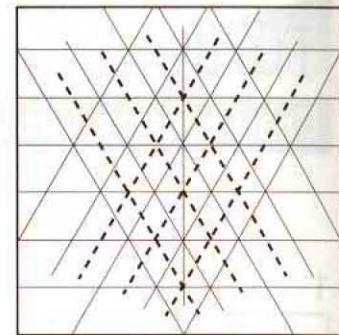
10



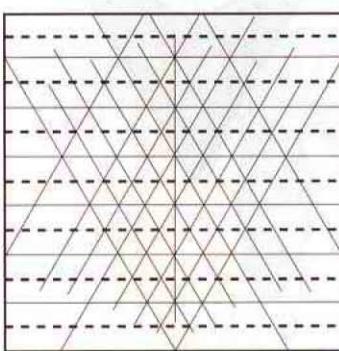
11



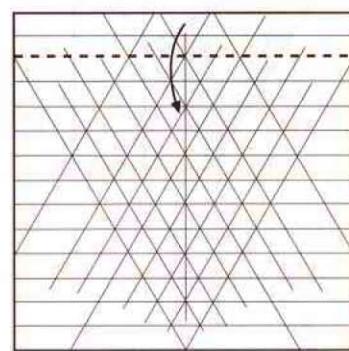
12



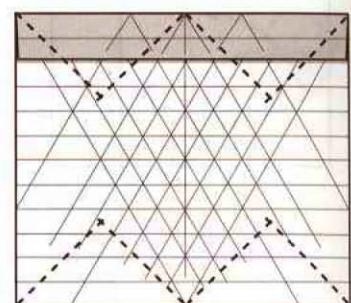
13



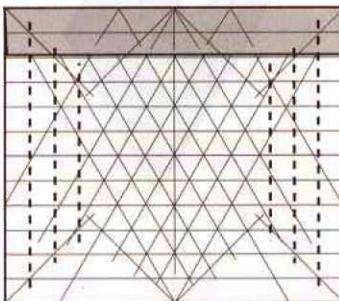
14



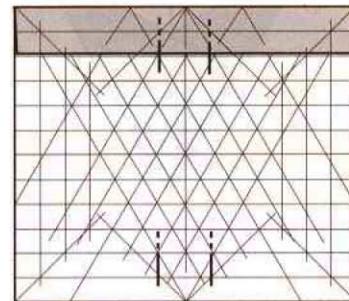
15



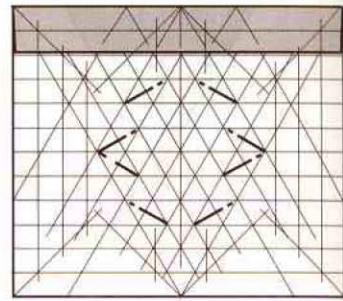
16



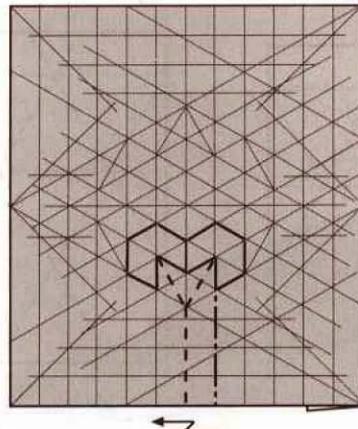
17



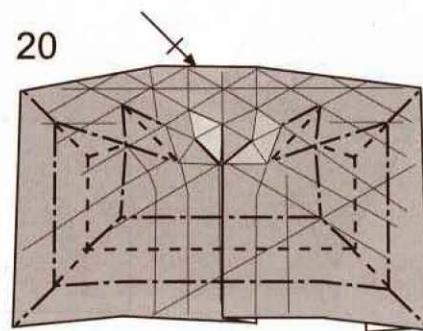
18

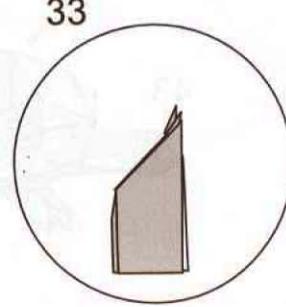
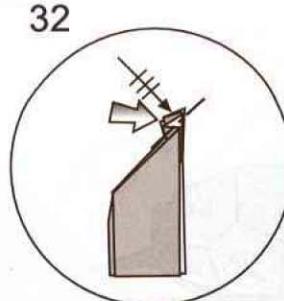
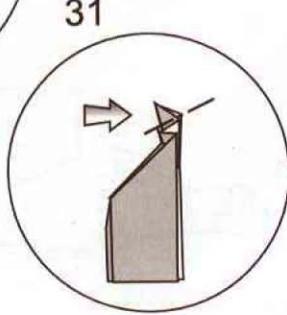
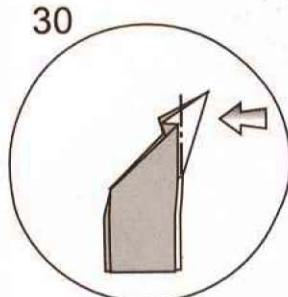
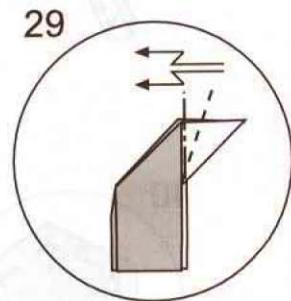
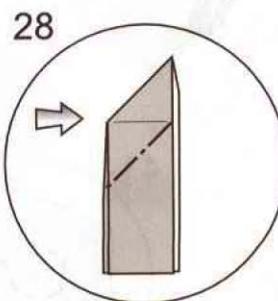
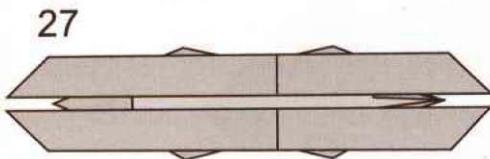
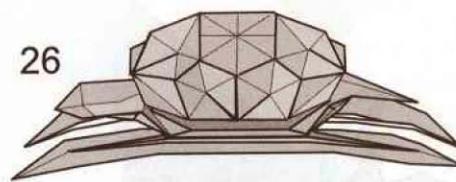
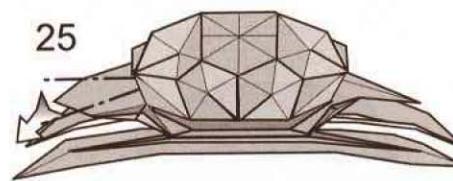
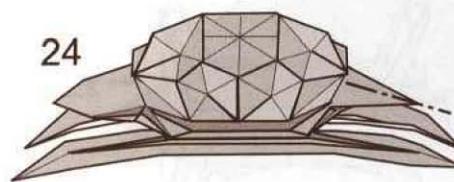
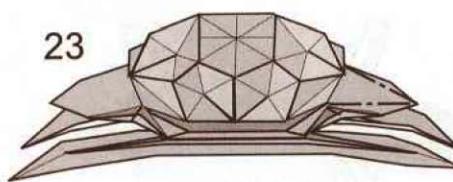
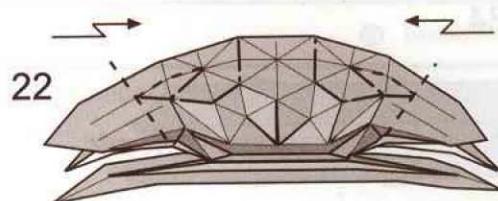
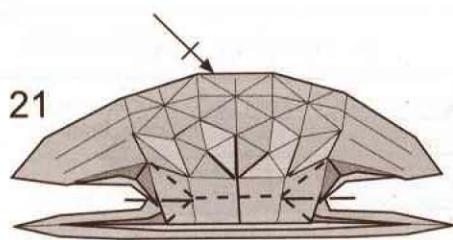


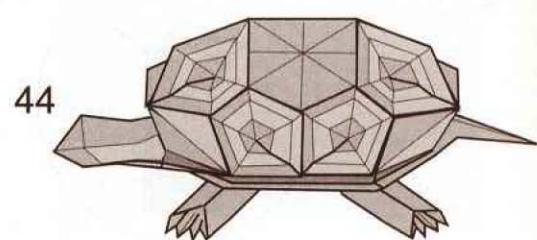
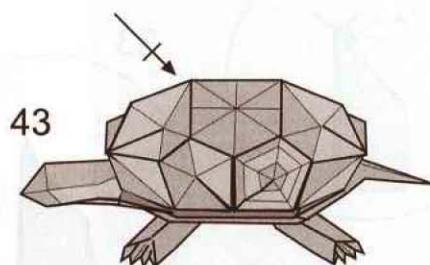
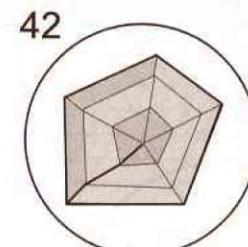
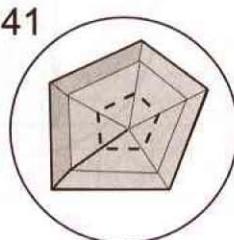
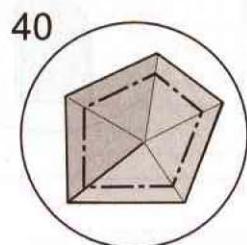
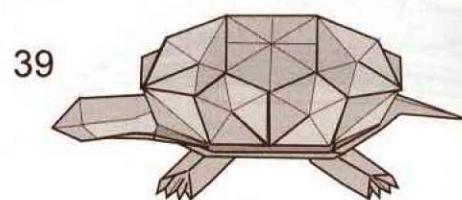
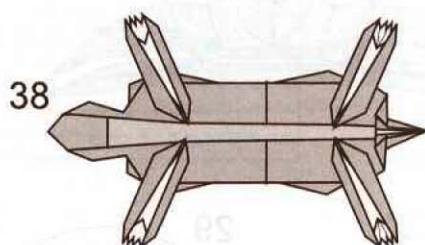
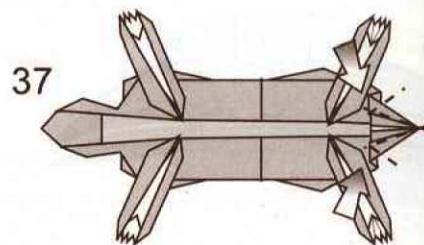
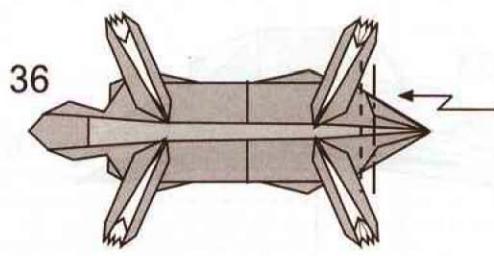
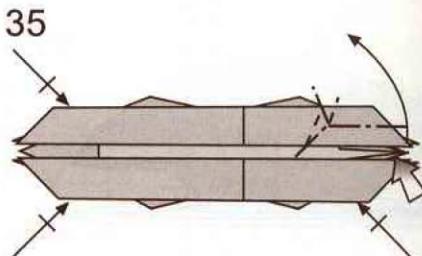
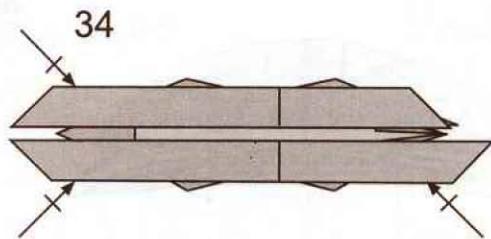
19



20



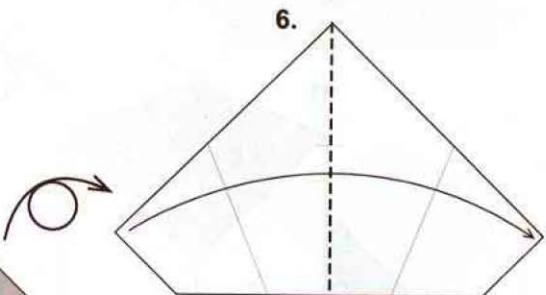
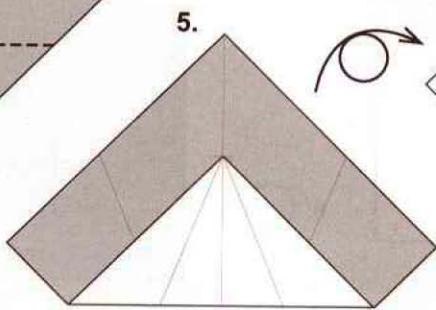
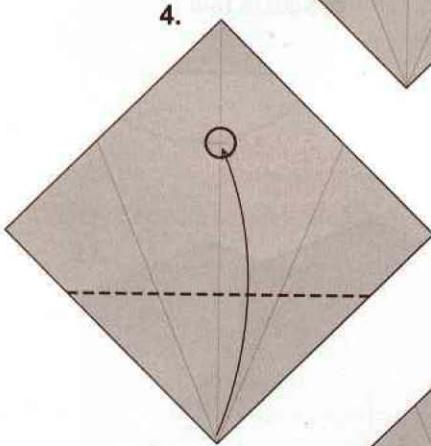
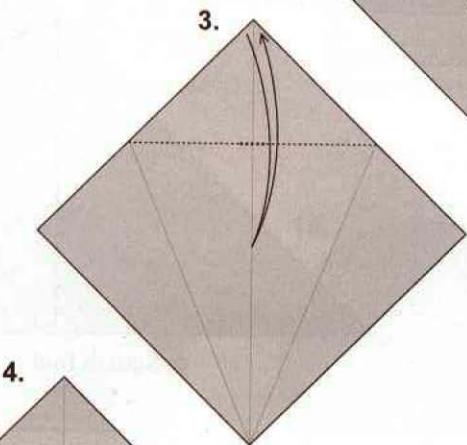
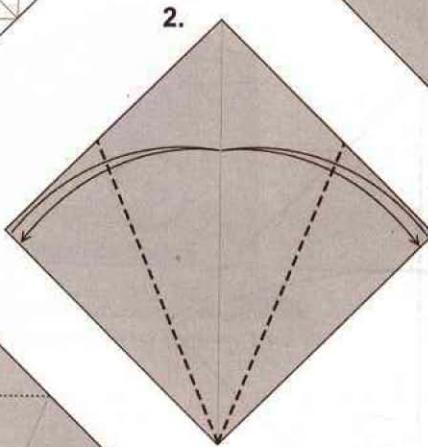
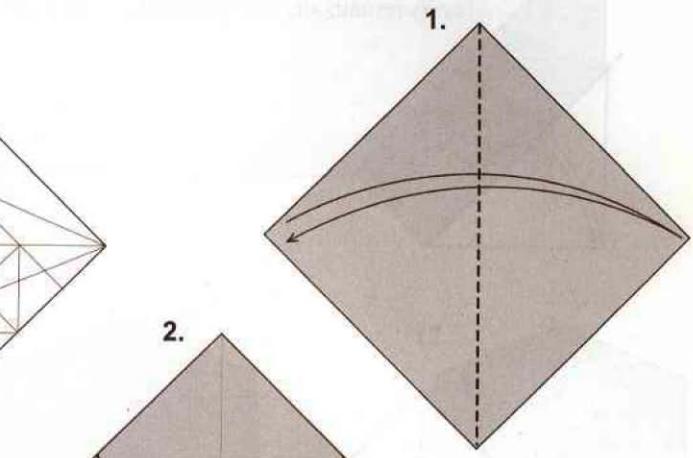
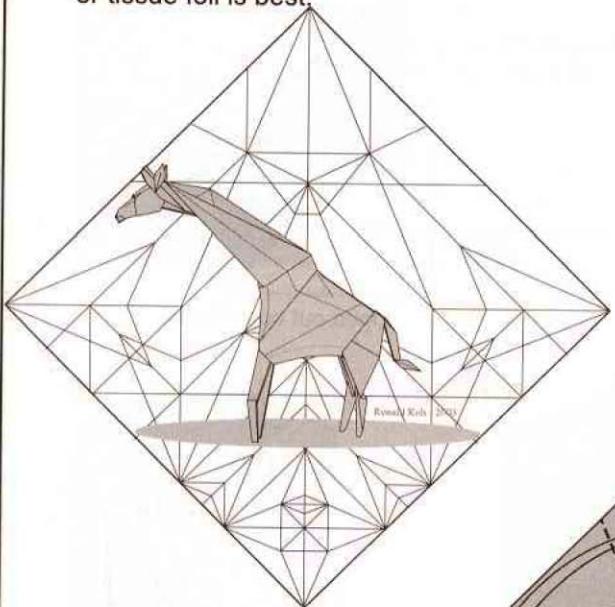




## Giraffe (Version 2)

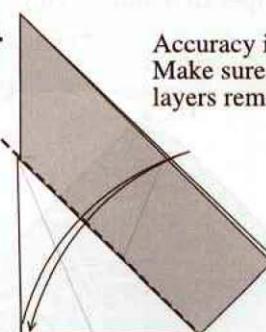
© Ronald Koh - 2003

Use a sheet of at least 30cm square for a 12cm tall model. Kraft paper of about 70gsm or tissue foil is best.

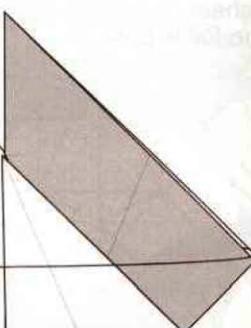


7.

Accuracy is very important here.  
Make sure that the respective  
layers remain align as you fold.



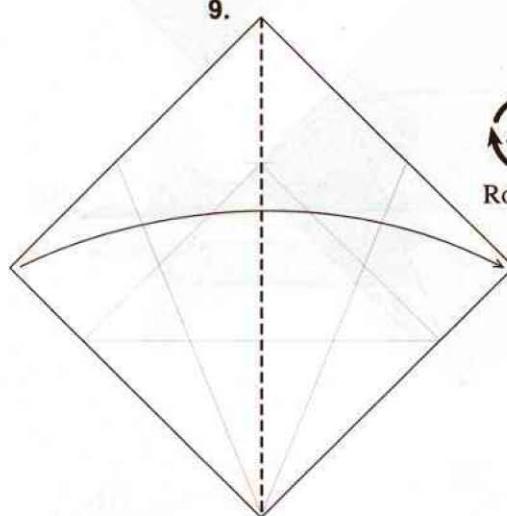
8.



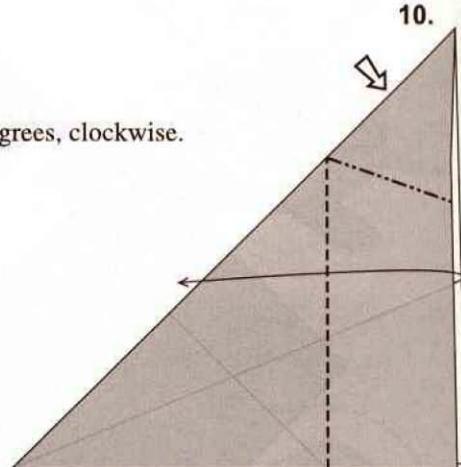
9.



Rotate 45 degrees, clockwise.



10.

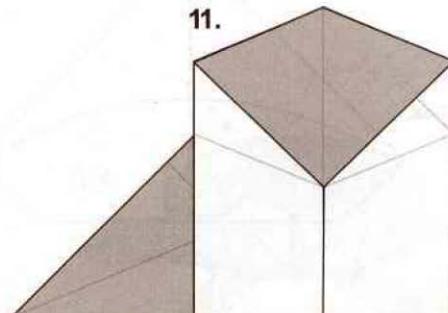


Squash fold

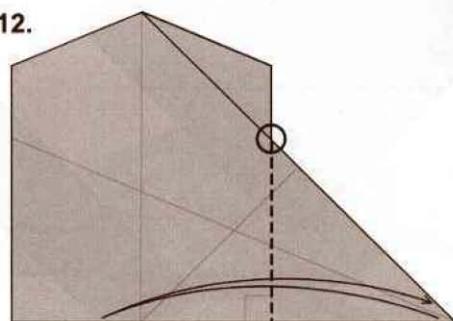
11.



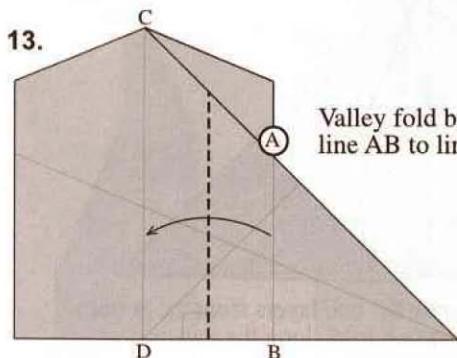
Turn over.



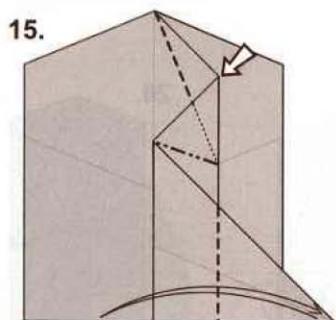
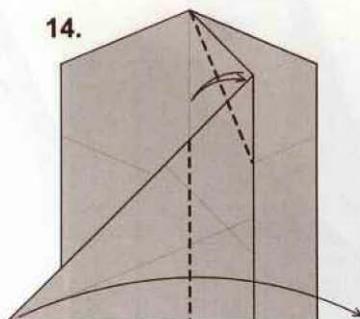
12.



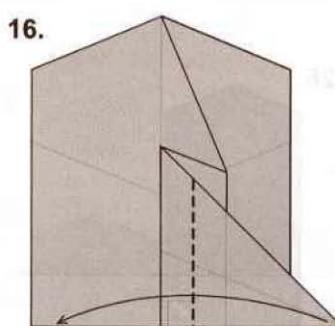
[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)



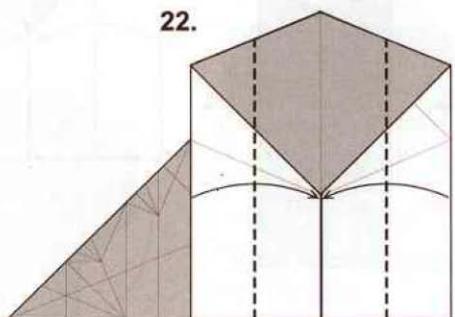
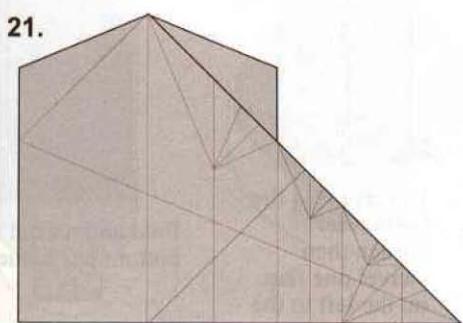
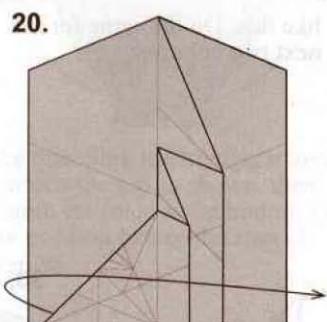
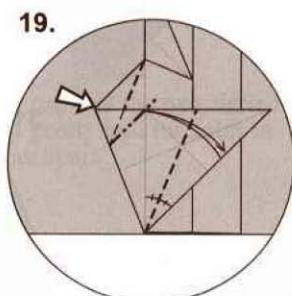
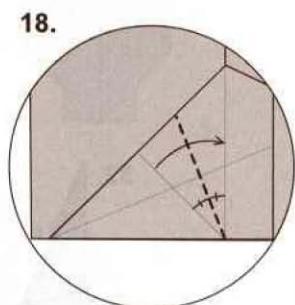
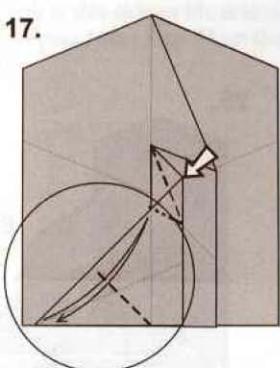
Valley fold by bringing line AB to line CD.

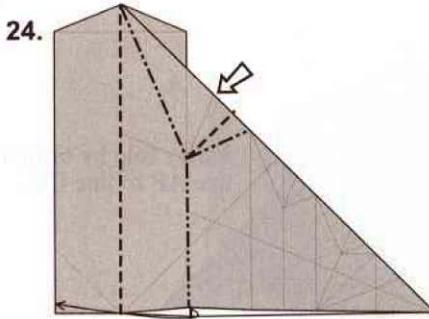
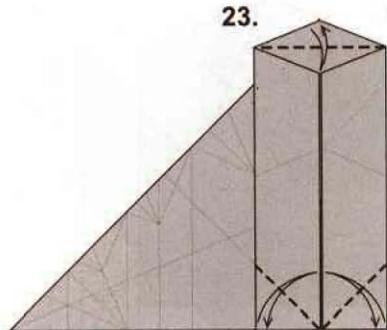


Crimp fold at the top as illustrated.

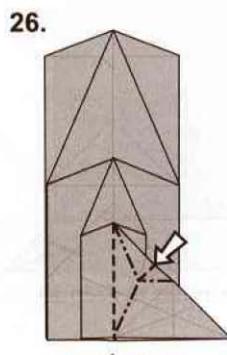
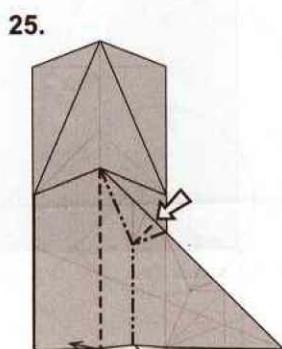


This is similar to Step 13.

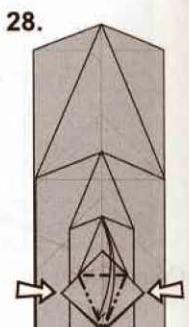
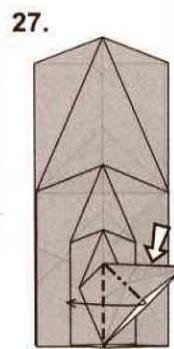




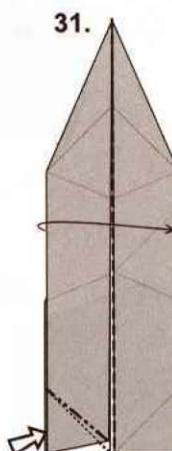
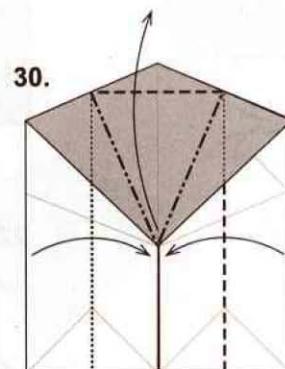
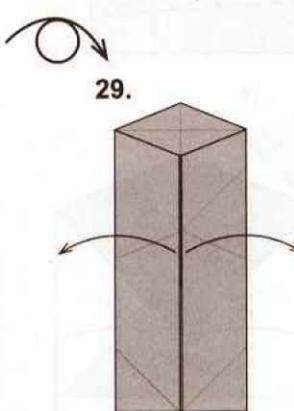
Separate the two layers from the bottom and squash fold along the existing creases lines as shown, ...



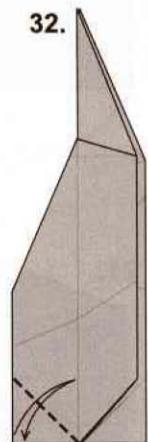
... and so on.



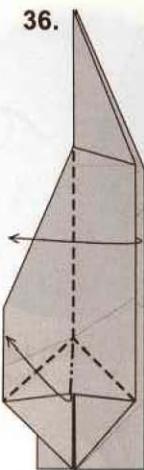
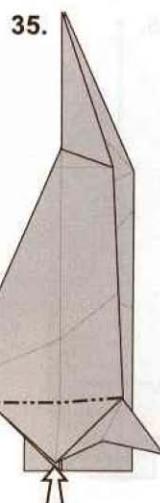
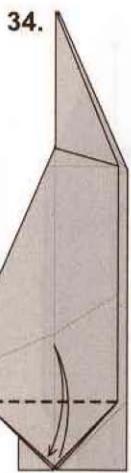
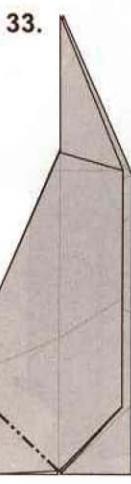
... like this. Do the same for the next two columns, ...



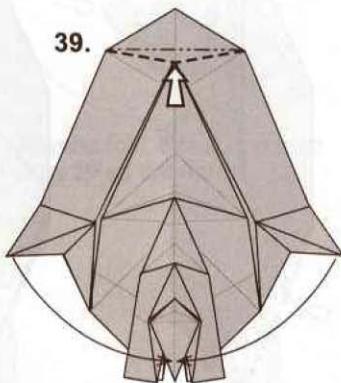
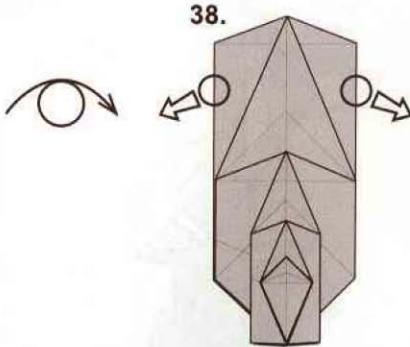
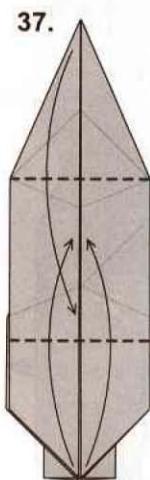
Reverse fold the bottom left corner, then swivel one flap on the left to the right.



Fold and unfold the bottom left corner, ...

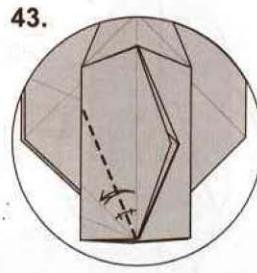
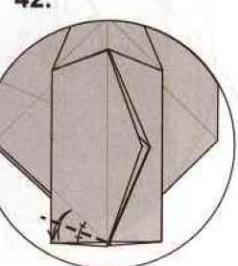
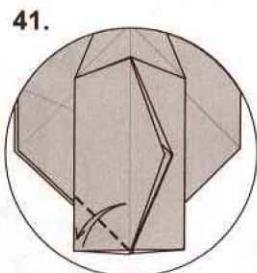


Complete this side as illustrated, then repeat from Step 31 on the right.



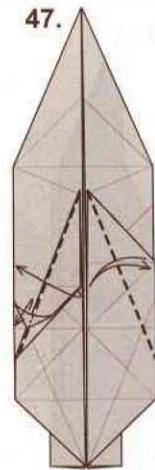
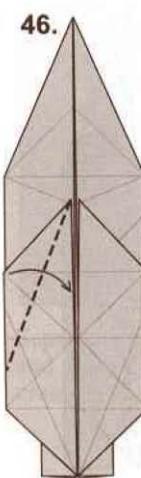
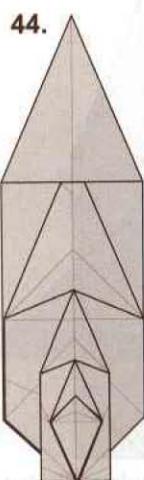
Grasp the paper at the two circled areas and gently pull the folds at the bottom apart, ...

... like this. Sink the triangular area towards the top as shown, then restore the folds at the bottom to the position before the start of Step 38.

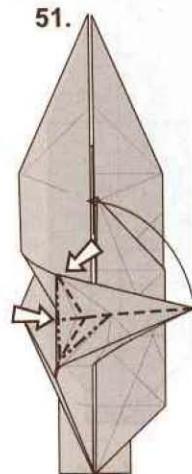
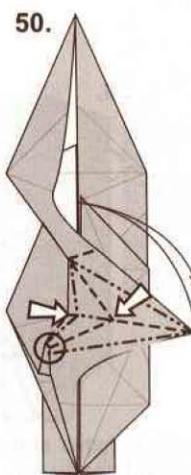
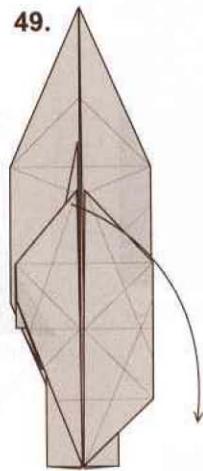
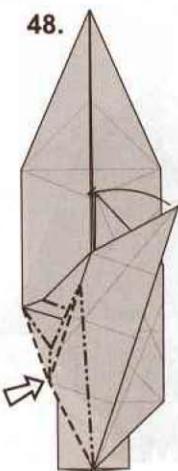


Repeat from Step 40 on the right

キリン／ロナルド・コウ (シンガポール)



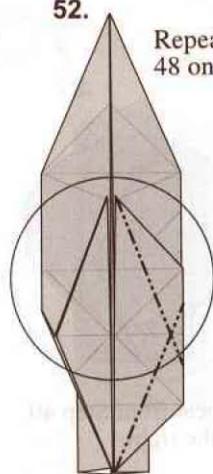
Note the little pocket on the left. Unfold and repeat from Step 46 on the right.



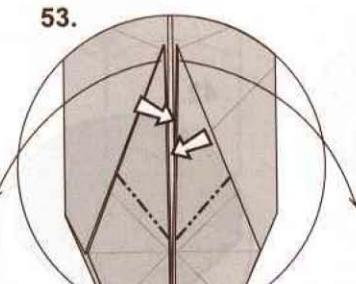
Open sink.

Open sink again. Watch the layers at the circled corners. Fold this point up to flatten the layers, then open up again, ...

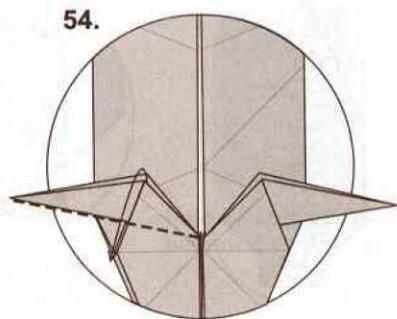
... to reposition the layers as shown, before flatten again.

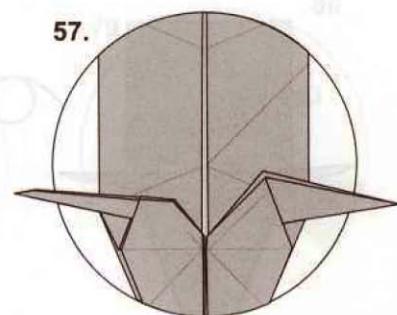
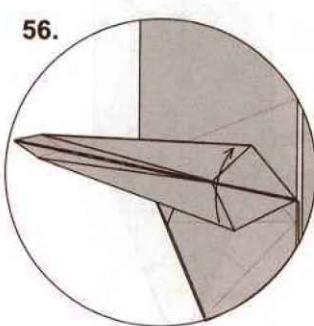
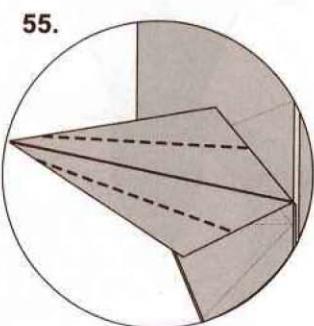


Repeat from Step 48 on the right.

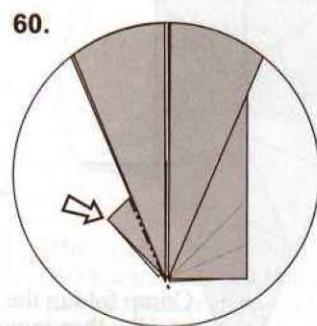
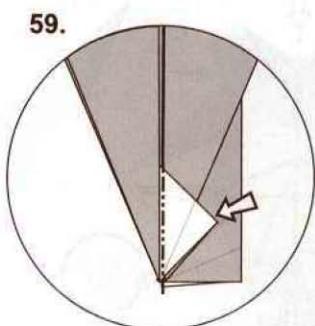
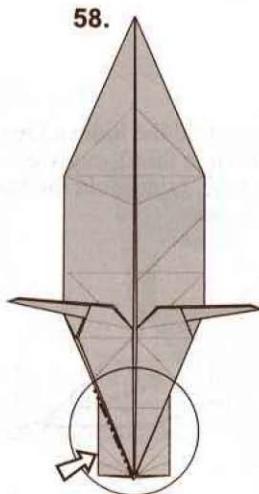


Reverse fold.

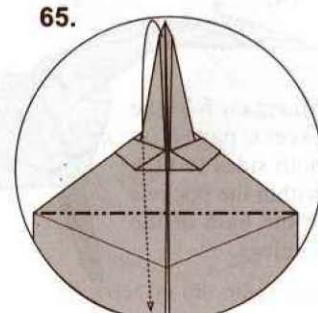
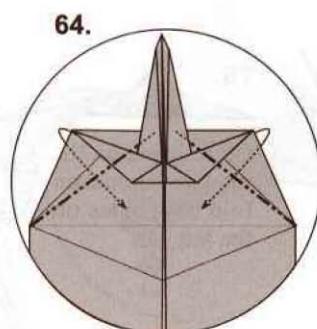
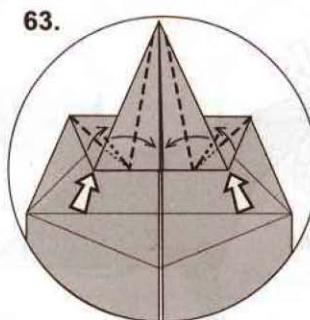
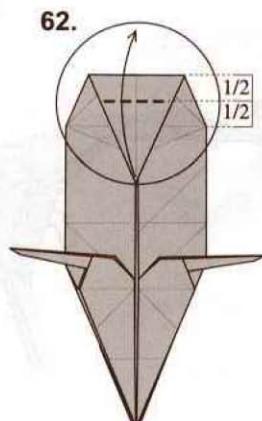
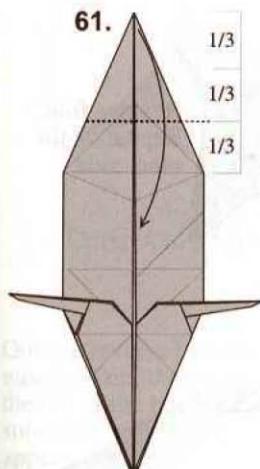


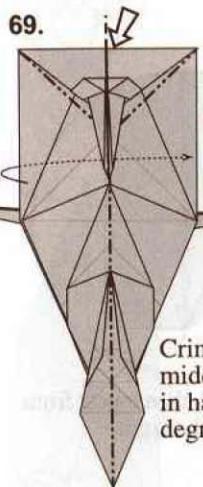
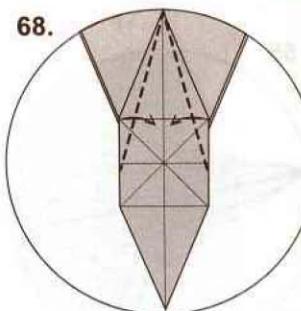
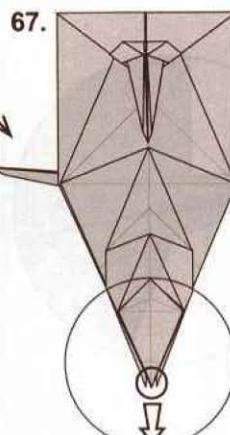
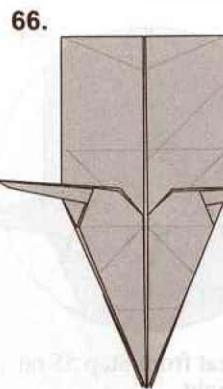


Repeat from Step 55 on the right.

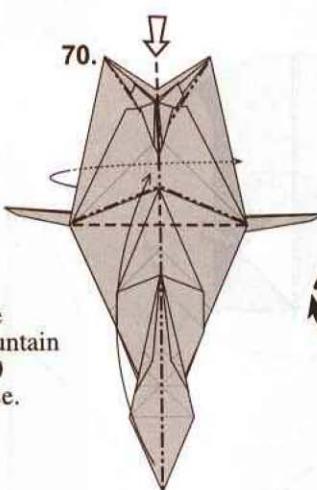


Reverse fold, then repeat from Step 59 on the right.

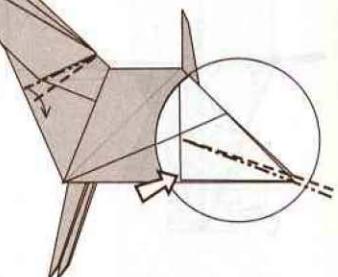




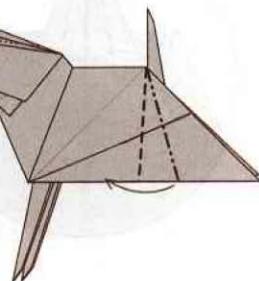
Crimp fold in the middle, then mountain in half. Rotate 90 degrees clockwise.



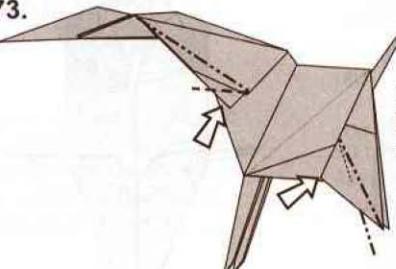
Reverse fold the hidden layer, as shown in this X-ray view. That done, crimp fold the base of the neck



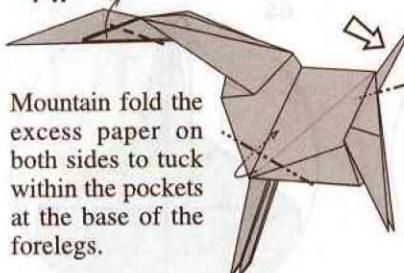
Crimp fold both sides on the right, then reverse fold along the back of the neck as illustrated.



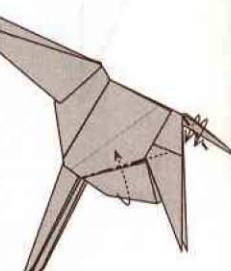
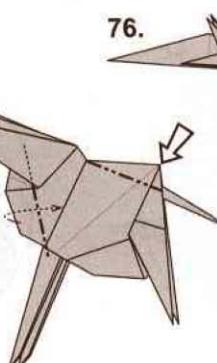
Reverse fold. Repeat on the other side.

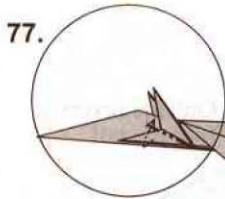


Mountain fold the excess paper on both sides to tuck within the pockets at the base of the forelegs.

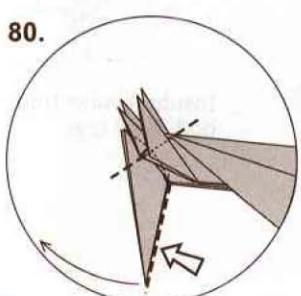
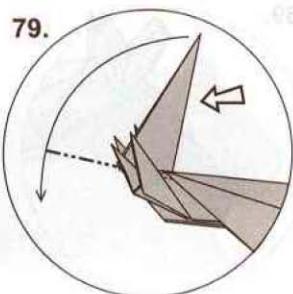
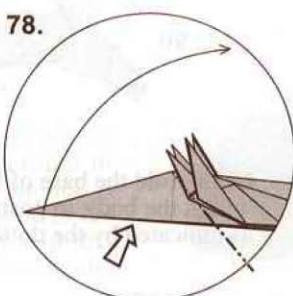


Closed sink on the right, and mountain fold both sides on the left

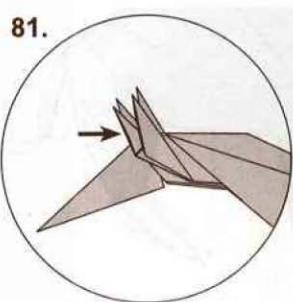




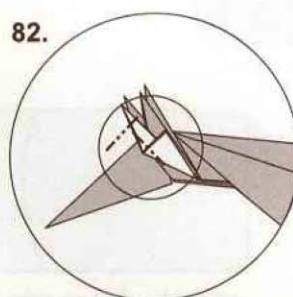
Mountain fold. This should help to keep the layers along the neck together. Repeat on the other side.



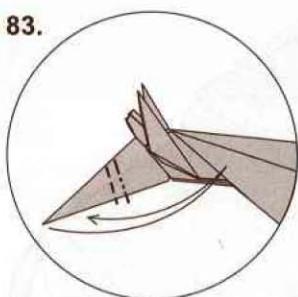
Fold the corners on both sides of the head down, and reverse fold the head piece, ...



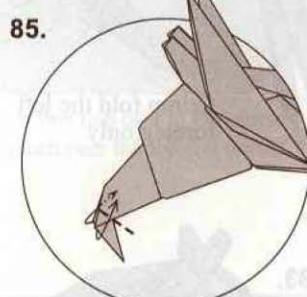
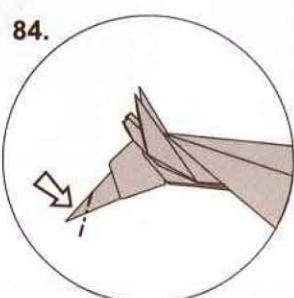
We will now work on the horns, which are the short points sandwiched between the ears.



This is an X-ray view of the left horn. Mountain fold to narrow, then reverse fold the tip. Repeat behind.

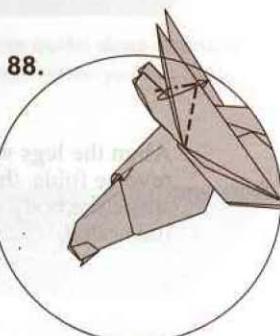
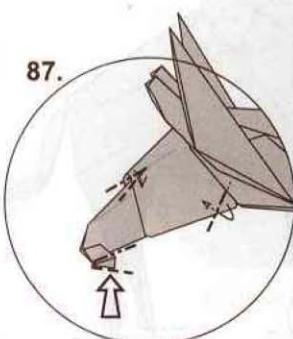
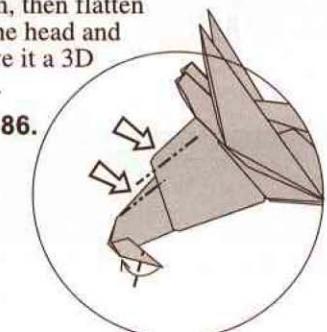


Crimp fold as shown.



Outside reverse fold.

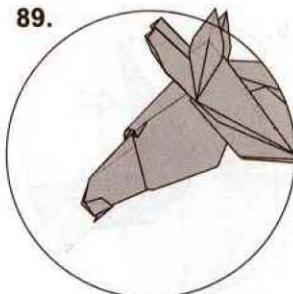
Outside reverse fold the mouth again, then flatten the top of the head and snout to give it a 3D appearance.



Repeat on the other side

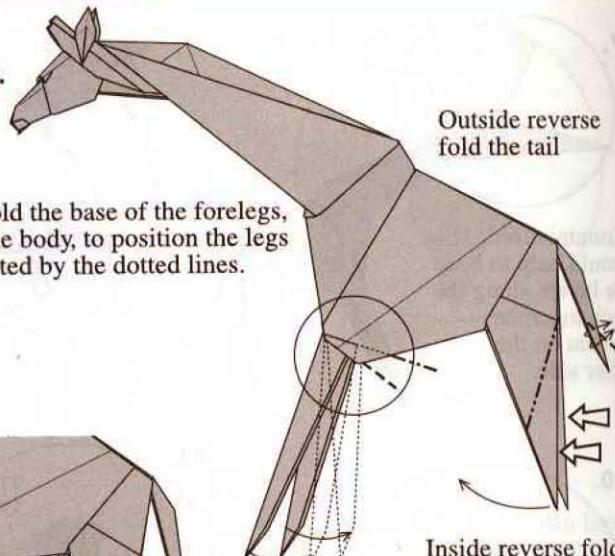
キリン／ロナルド・コウ (シンガポール)

89.



Head done!

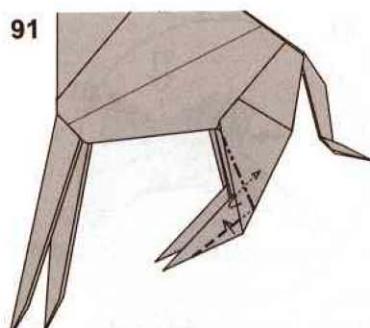
90.



Outside reverse  
fold the tail

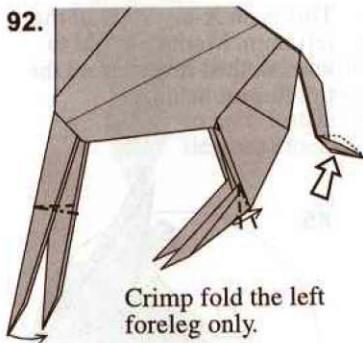
Crimp fold the base of the forelegs,  
within the body, to position the legs  
as indicated by the dotted lines.

91

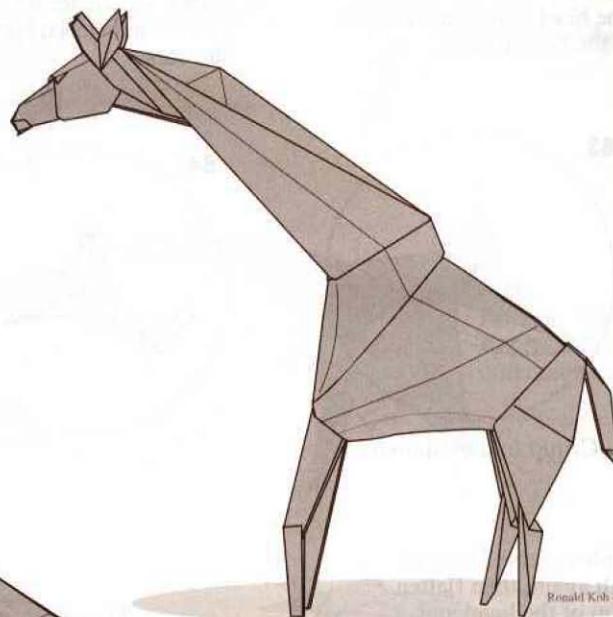


Inside reverse fold  
both hind legs

92.



Crimp fold the left  
foreleg only.



Ronald Koh - 2003

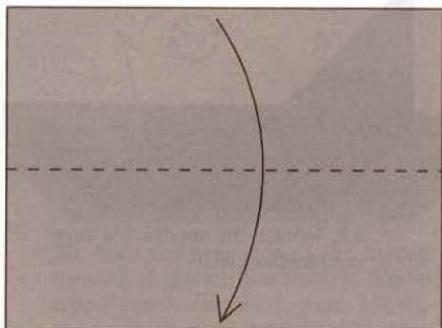
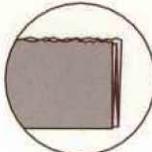
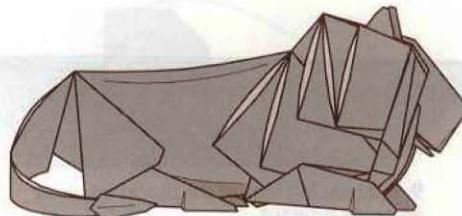
Align the legs with  
reverse folds, then  
shape the body as  
illustrated.

# Lion

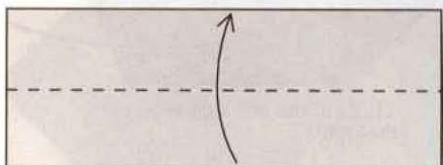
Designed by Robert J. Lang  
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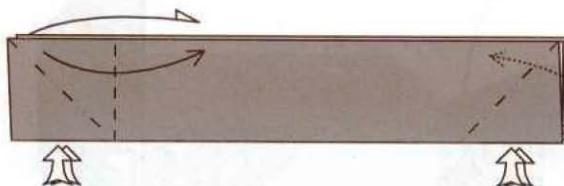
This model is designed to be folded from an untrimmed 3x4 rectangle. Since the proportions of untrimmed rectangles may vary, this model is relatively forgiving of small variations in the initial folding proportions. If you plan to wet-fold this model, fold the paper dry up to step 20, then unfold, dampen, refold, and continue.



1. Begin with the colored side up. Fold the paper in half from top to bottom.



2. Fold the bottom edge up to lie along the top edge. Repeat on the far side. If the edge is rough, it should overlap the top edge slightly as shown in the inset.



3. Squash-fold the lower left corner; repeat behind. Reverse-fold the lower right corner; repeat behind.



4. Fold the tip of one flap over to the crease; make a small pinch near the top and unfold.



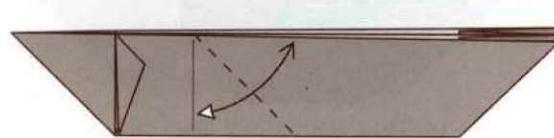
5. Fold the tip of the flap over to the crease you just made; make a small pinch near the top and unfold.



6. Crease through the entire model along a vertical crease that lines up with the crease you just made.

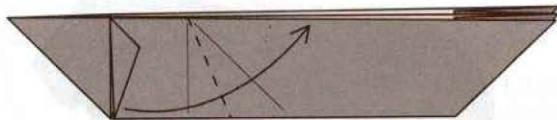


7. Fold a rabbit ear from the near flap. Repeat behind.

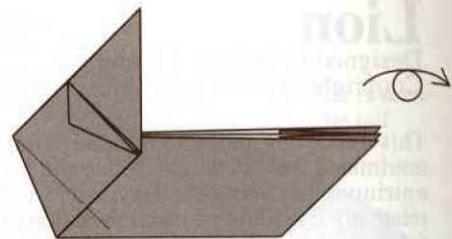


8. Crease lightly along the angle bisector.

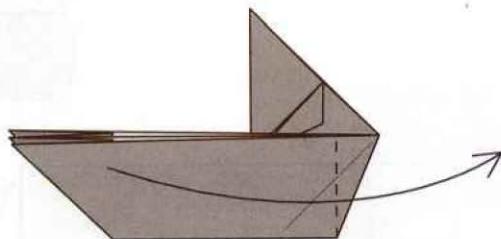
[www.japaoburajirujin.blogspot.com](http://www.japaoburajirujin.blogspot.com)



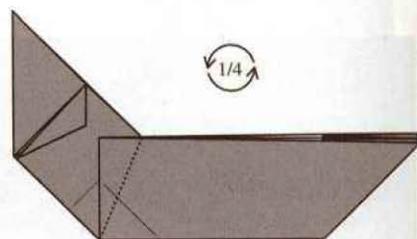
9. Fold the left side of the model up along an angle bisector.



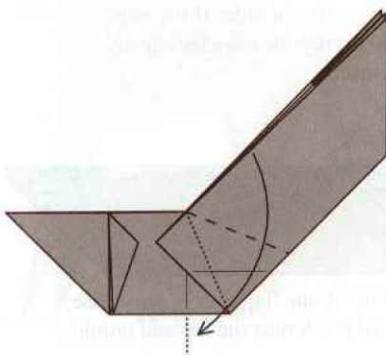
10. Turn the model over from side to side.



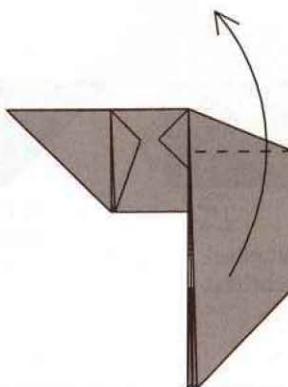
11. Fold the left side over to the right.



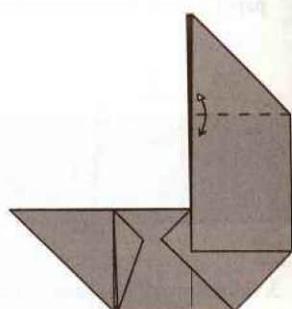
12. Rotate the model 1/4 turn counterclockwise.



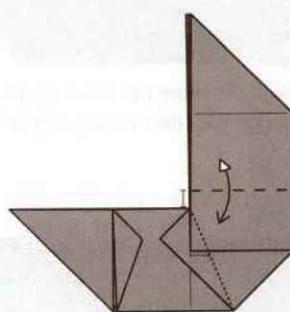
13. Fold the flap back downward so that its edge lines up with the existing vertical crease.



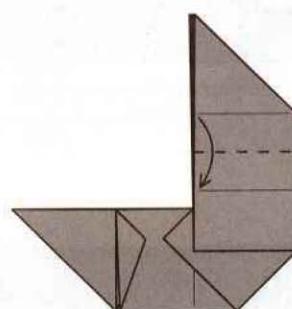
14. Fold the flap back up so that its left edge is vertical.



15. Crease lightly through a single layer. Repeat behind.

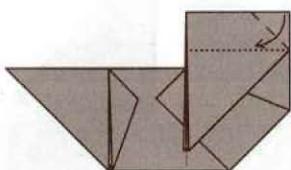


16. Fold and unfold. The exact position of the crease isn't critical, but you can use the distance marked "d" as a guide.

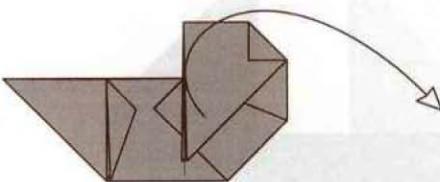


17. Fold the flap down so that the pinch from step 15 lines up with the crease you just made.

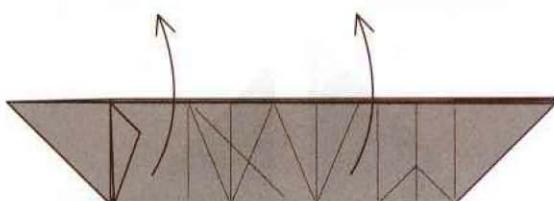
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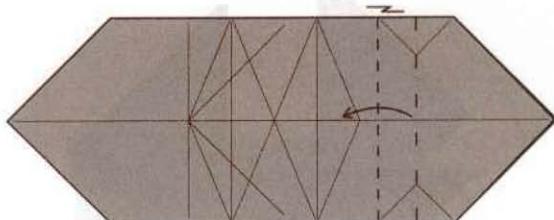
18. Fold the thick corner down so that its edge lies along a horizontal line.



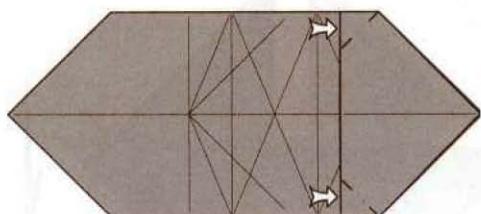
19. Unfold to step 9.



20. Fold the near side of the model upward. If you are wet-folding, this is a good time to dampen the paper. Unfold the paper, dampen it completely, then refold to this step.



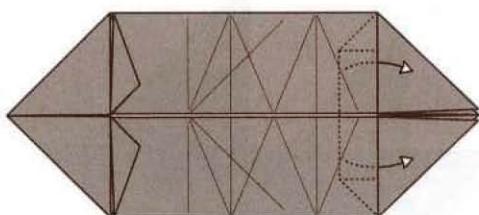
21. Pleat the paper on the existing creases.



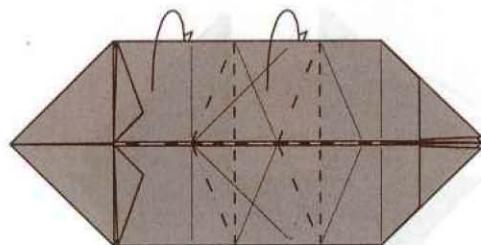
22. Reverse-fold the corners.



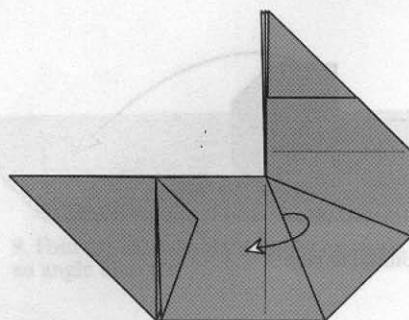
23. Turn over the model from top to bottom.



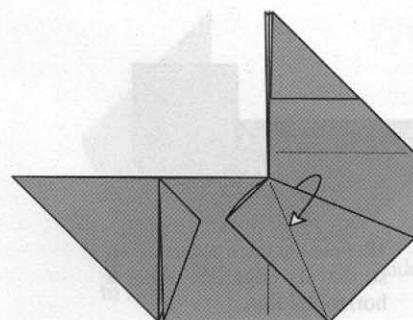
24. Pull out the loose paper.



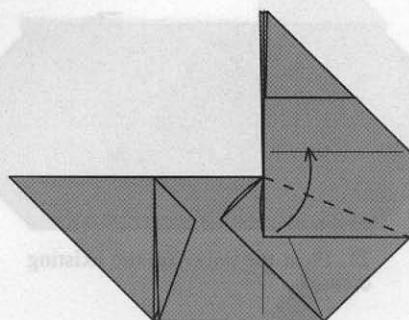
25. Fold the model in half, incorporating the two pleats on the existing creases.



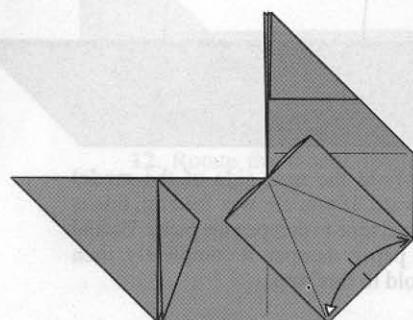
26. Pull out some loose paper. Repeat



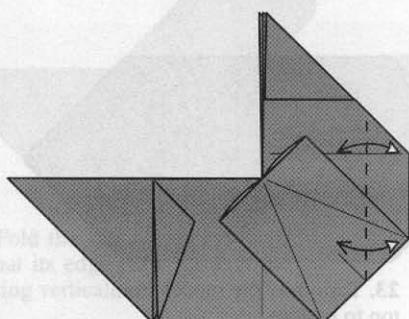
27. Pull out some more loose paper. Repeat behind.



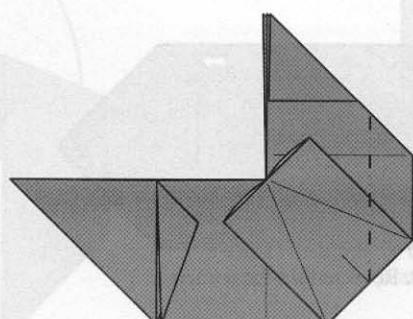
28. Fold one flap up as far as possible. Repeat behind.



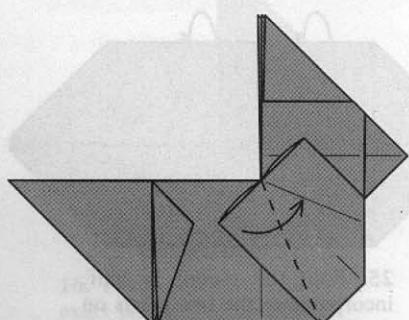
29. Fold and unfold.



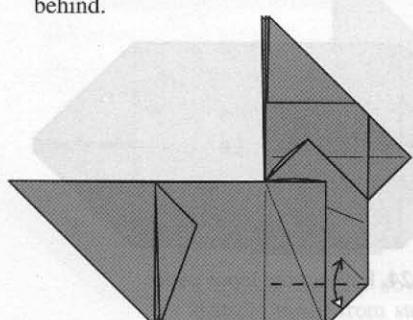
30. Fold and unfold. Repeat behind.



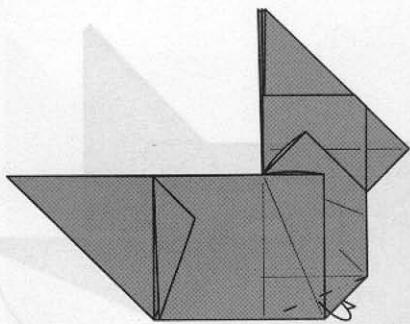
31. Sink the edge. The sink is partially open, partially closed. The edge view shows where the open parts are. Repeat behind.



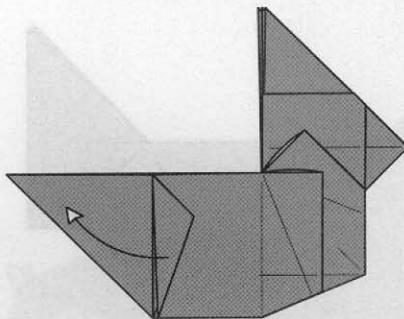
32. Fold one flap upward. Repeat behind.



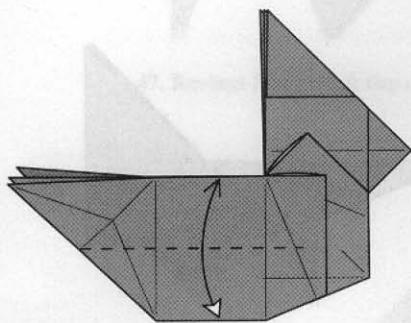
33. Fold and unfold. Repeat behind.



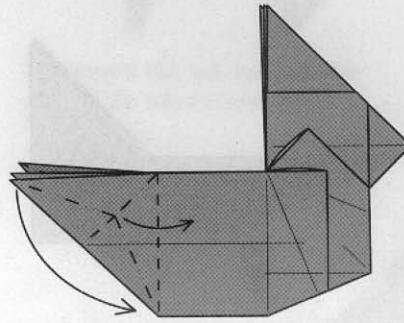
34. Mountain-fold the corner underneath.  
Repeat behind.



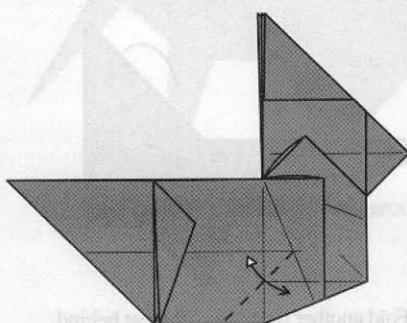
35. Unfold the flap. Repeat behind.



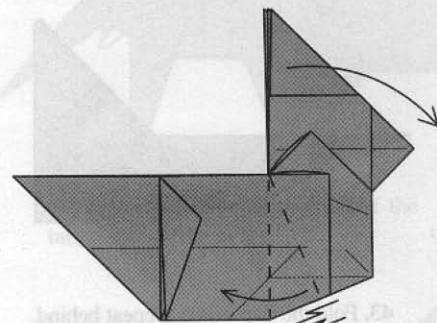
36. Fold the bottom edge up to the top;  
crease firmly and unfold. Repeat behind.



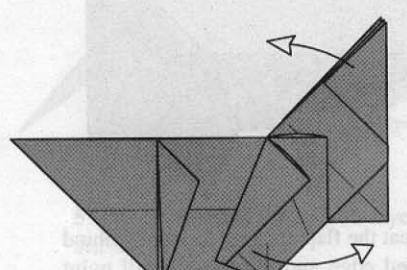
37. Refold the left flap. Repeat behind.



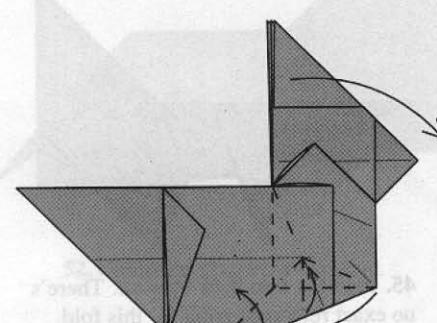
36. Fold and unfold. The crease runs  
through two crease intersections and is  
at 45°. Repeat behind.



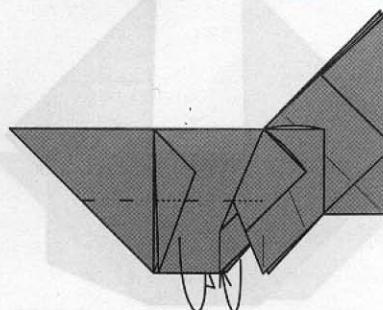
37. Crimp on the existing creases. The  
top of the model swings over to the right.  
Flatten firmly.



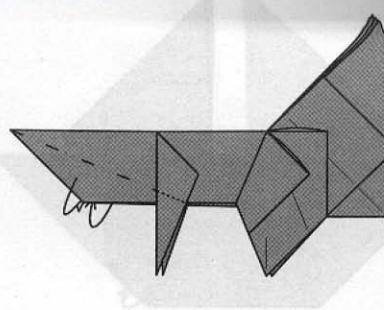
38. Unfold to step 37.



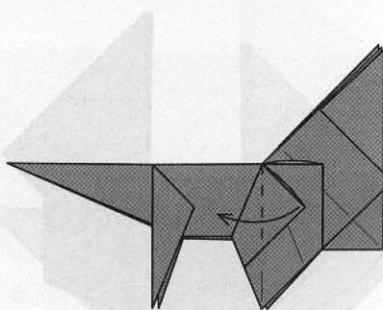
39. Redo the crimp, but incorporating  
the creases shown, both front and behind.



39. Mountain-fold the edges underneath on the existing creases.

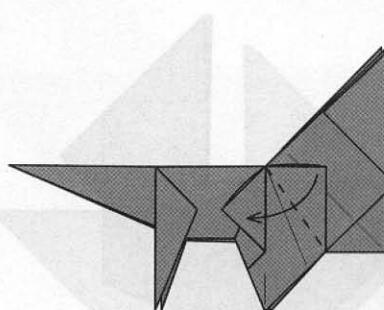


40. Mountain-fold the edges underneath.

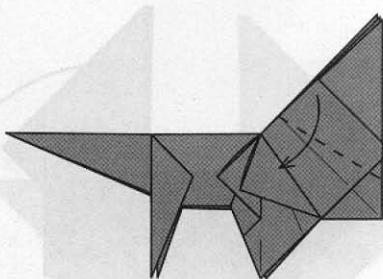


41. Valley-fold the flap to the left. Repeat

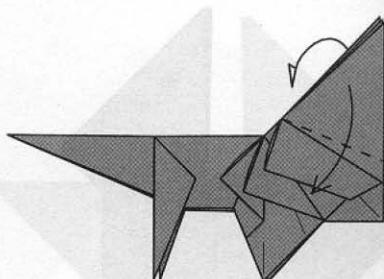
28. Fold one flap up as far as possible. Repeat behind.



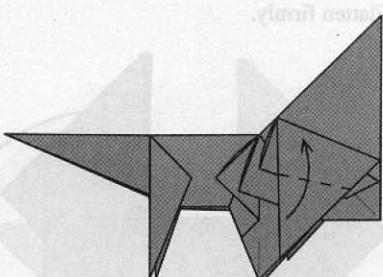
42. Fold the next flap down. Repeat



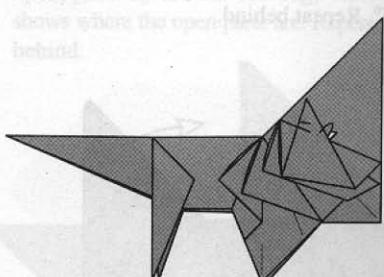
43. Fold the flap down. Repeat behind.



44. Fold another flap down. Repeat behind.

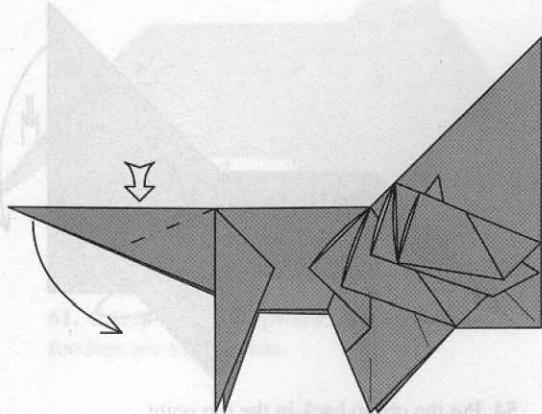


45. Fold the flap back upward. There's no exact reference point for this fold.

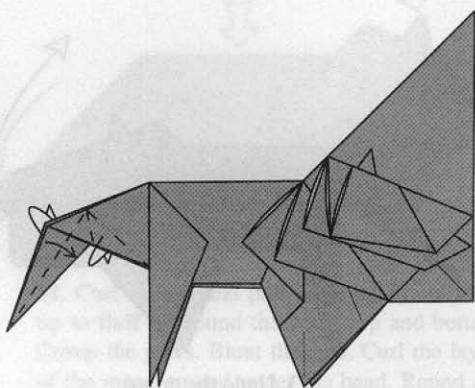


46. Pleat the flap, tucking the pleat behind a folded edge and leaving a small point poking up. Repeat behind.

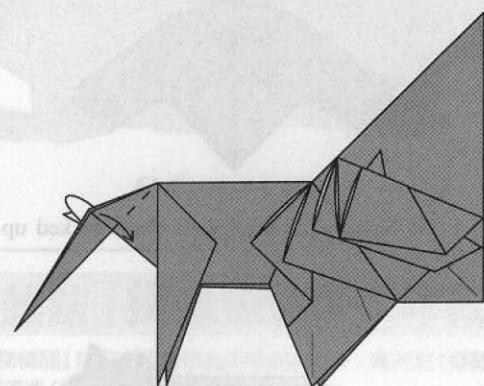
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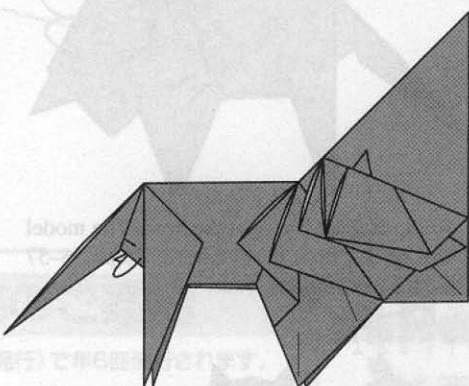
47. Reverse-fold the left flap downward.



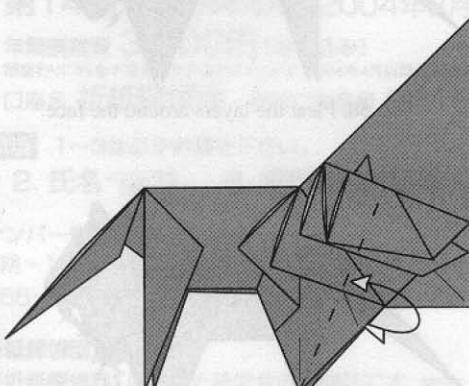
48. Narrow the tail and tuck the edges inside where it joins the body.



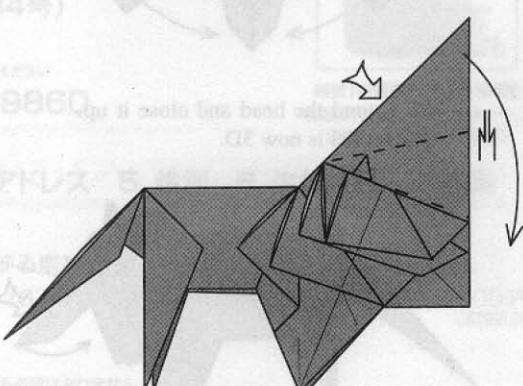
49. Wrap the edges of the tail around.



50. Tuck the edges at the base of the tail up inside the model.

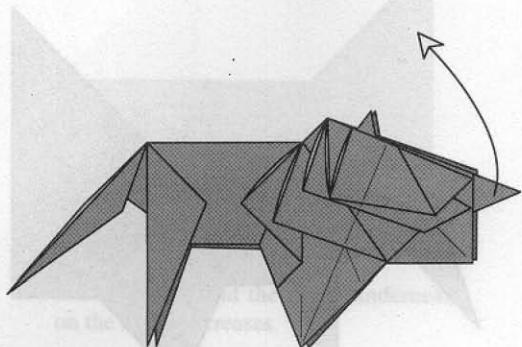


51. Mountain-fold through all layers and unfold. Repeat behind.

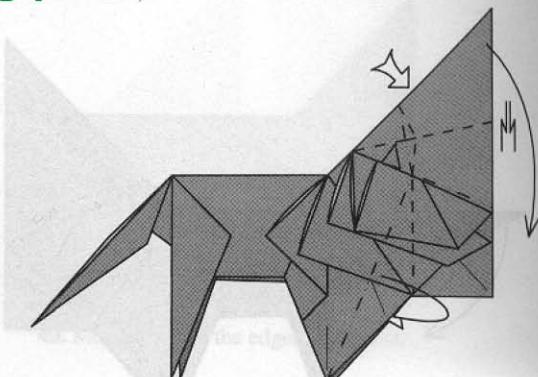


52. Crimp the top point downward.

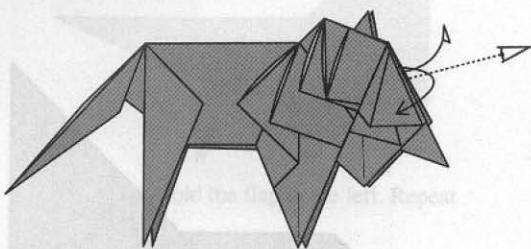
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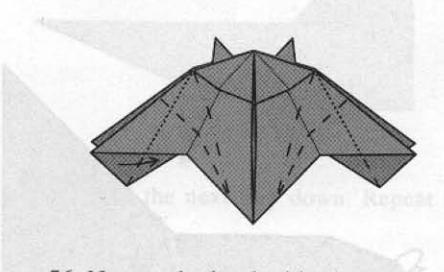
53. Undo the crimp.



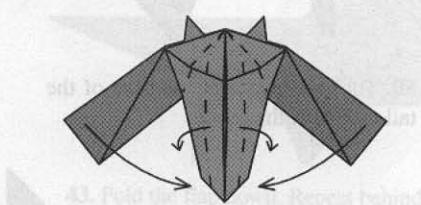
54. Put the crimp back in the top point, but at the same time pleat the forelegs and add some creases to the top crimp.



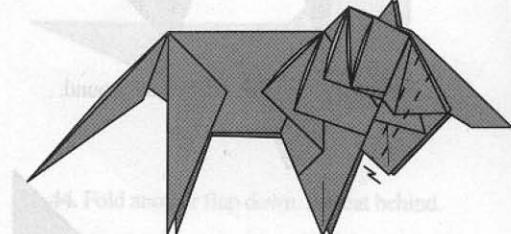
55. Spread the layers of the head. The model will be 3D from here onward. Steps 56-57 are a view from the front.



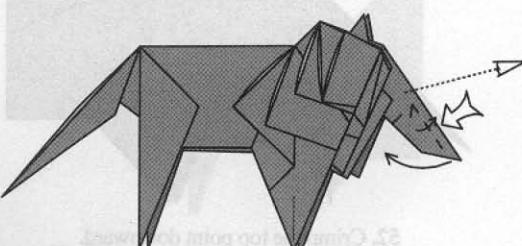
56. Narrow the head with pleats tucked up



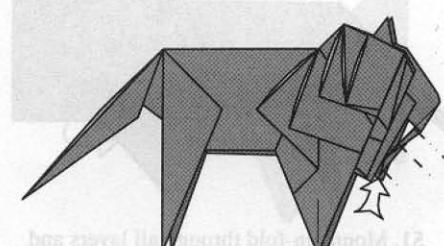
57. Round the head and close it up.  
The model is now 3D.



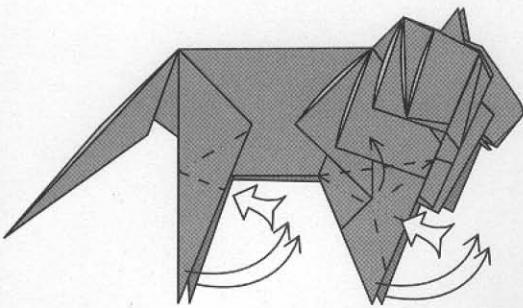
58. Pleat the layers around the face.



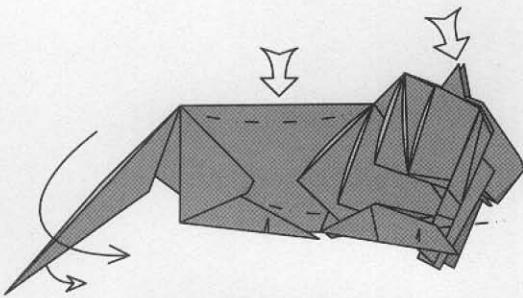
59. Squash-fold the nose downward and wrap the edges around the front of the face.



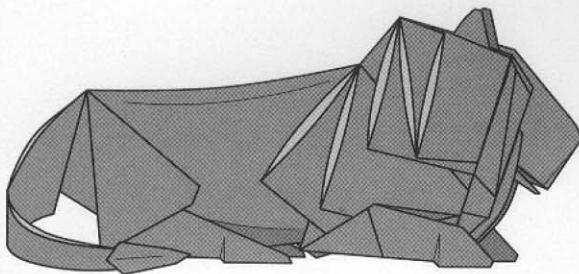
60. Sink the corner of the flap. Fold it back and forth to make a lower jaw.



61. Crimp the feet upward. Note that the forelegs are asymmetric.



62. Curl the tail and pull some paper out of its tip to fluff it. Round the body, top and bottom. Crimp the paws. Blunt the ears. Curl the layers of the mane around under the head. Round and shape the entire body.



63. Finished Lion.

## 雑誌「折紙探偵団」年間購読のご案内

雑誌「折紙探偵団」は日本折紙学会の機関誌です。隔月刊(奇数月25日発行)で年6回発行されます。年間購読制です(ばら売りは行っておりません)。

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- 郵便振替にてご送金下さい(普通の振替用紙でお申込み頂けます)。
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**第14期(2003年4月~2004年3月/79~84号)**

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**記入必要事項 1~3は必ずお書き下さい。**

**1. 住所 2. 氏名 \*お読みなさい。 3. 電話、FAX番号 4. E-Mailアドレス 5. 性別 6. 生年月日 7. 職業**



雑誌「折紙探偵団」79号表紙  
表紙フルカラー/本文38ページ  
(カラー手絵2ページ含む)

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54. Put the crimp back in the top point, but at the same time pleat the forelegs and the hind legs to the top crimp.

55. Fold back the head.

56. Narrow the head with pleats tucked in.

## 第9回 折紙探偵団コンベンション折り図集

PRINTED IN JAPAN

2003年8月23日発行

著者／日本折紙学会

発行人／西川誠司

編集人／山口 真

編集スタッフ／松浦英子、神谷哲史

デザイン／おりがみはうす

翻訳協力／立石浩一

発売元 おりがみはうす

発行所／日本折紙学会

113-0001

東京都文京区白山 1-33-8-216 (ギャラリーおりがみはうす内)

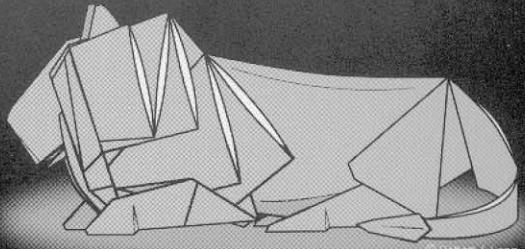
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E-mail= [webman@origami.gr.jp](mailto:webman@origami.gr.jp)

Web Site = <http://www.origami.gr.jp/>

■OrigamiTanteidan Convention Book vol.9 / Published on 23, August. 2003 by Japan Origami Academic Society, 1-33-8-216 Hakusan Bunkyo-ku 113-0001 Tokyo JAPAN / Publisher : Nishikawa Seiji / Editor in Chief : Yamaguchi Makoto / Editorial Design : OrigamiHouse / Translation Adviser : Tateishi Koichi

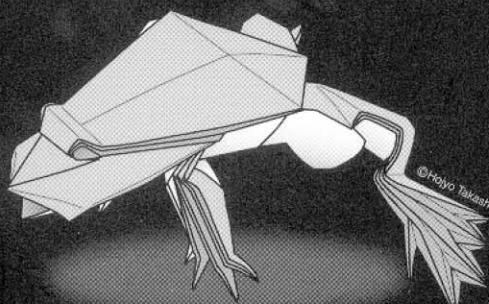
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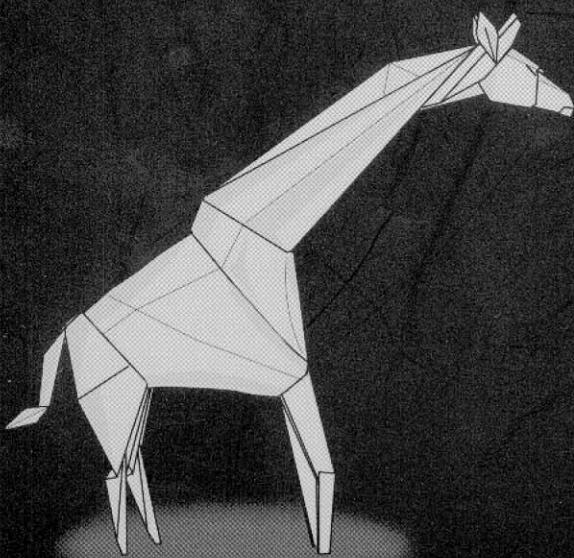
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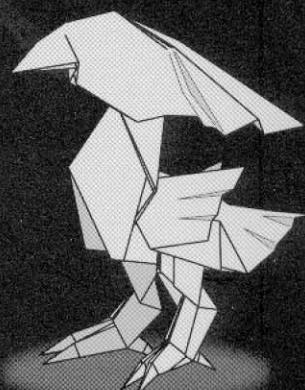
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