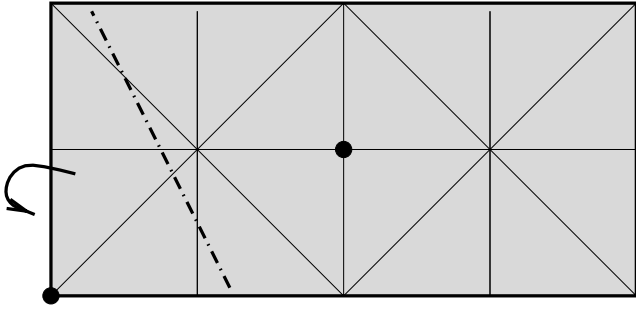
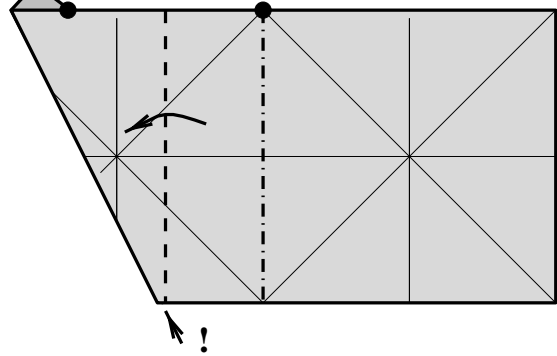


1. Precreases

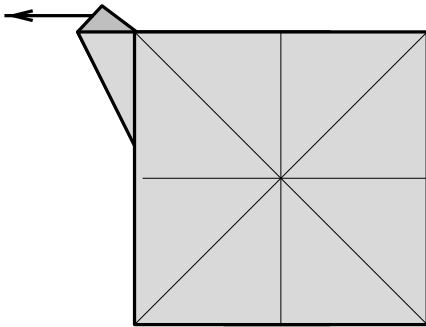
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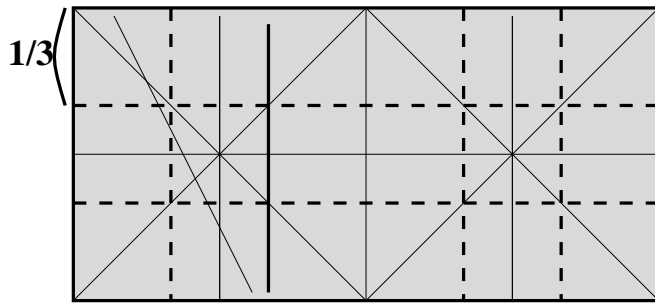
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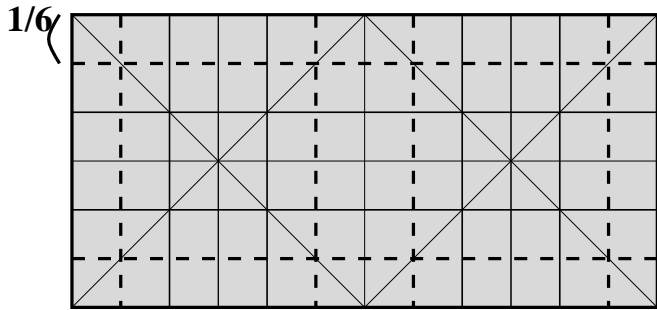
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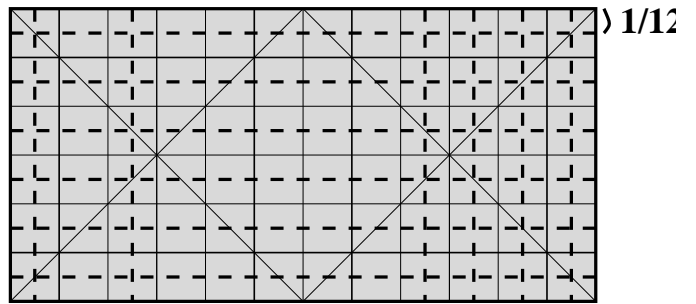
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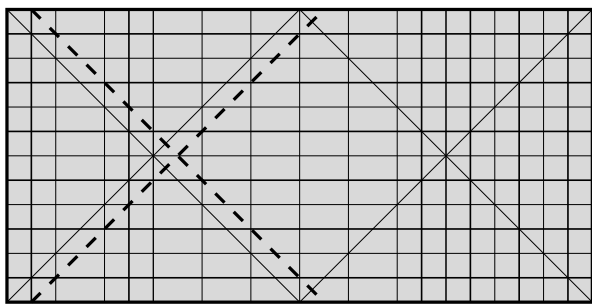
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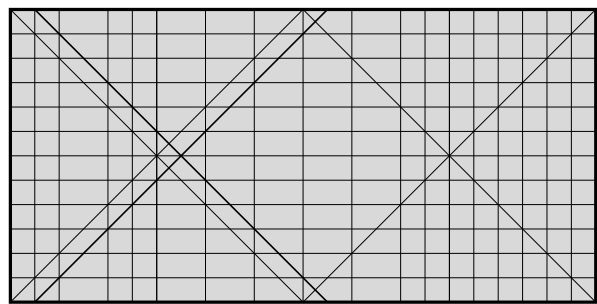
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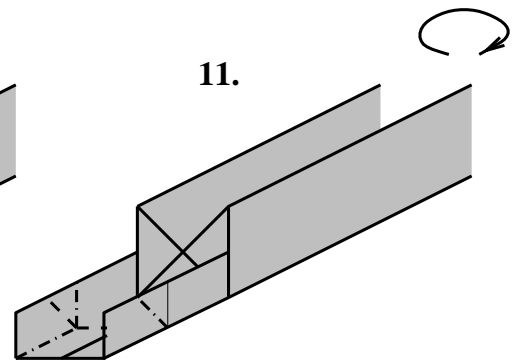
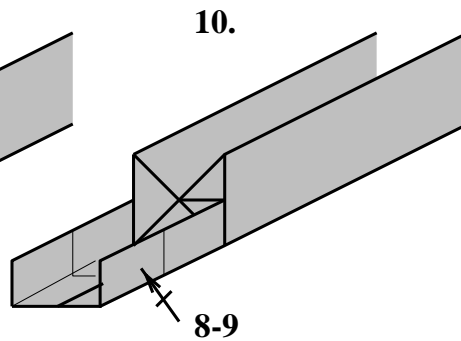
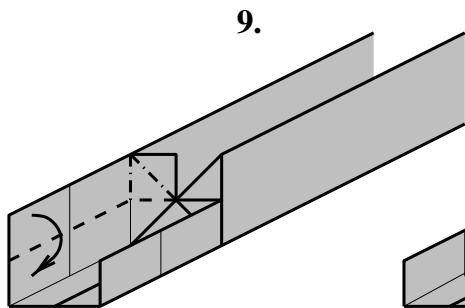
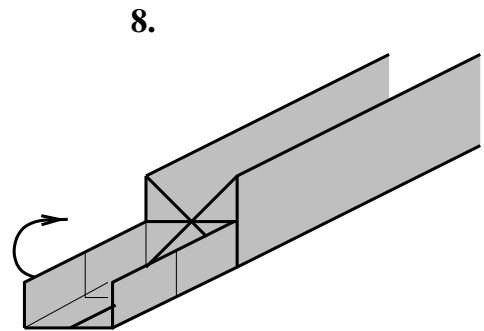
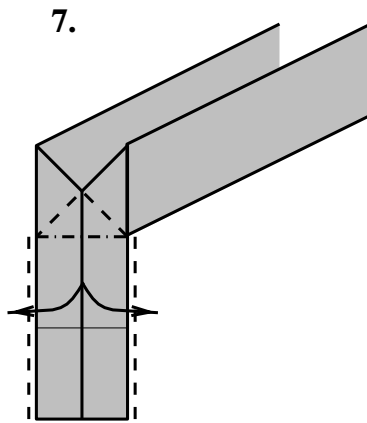
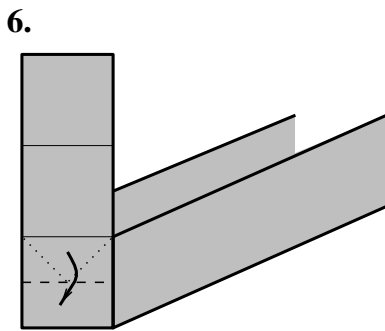
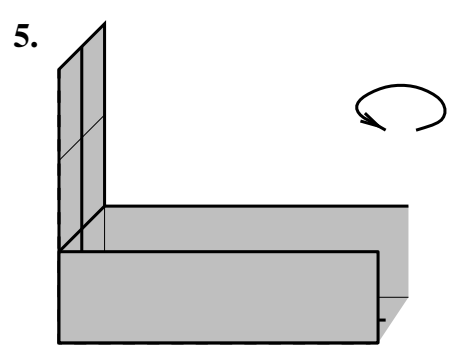
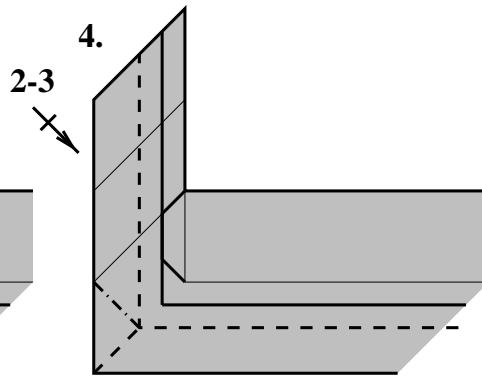
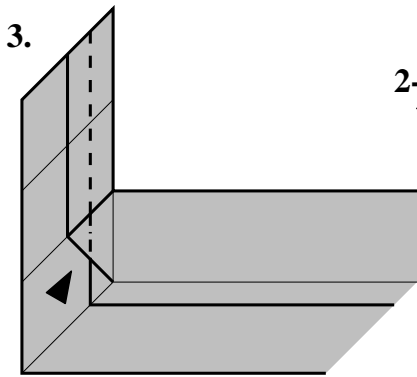
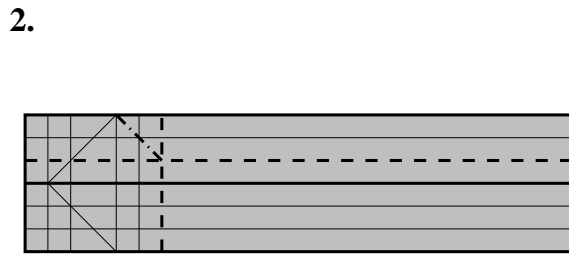
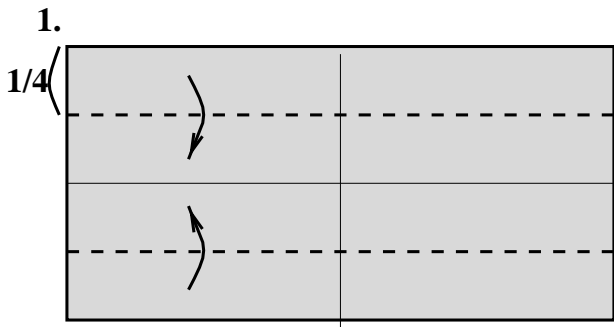
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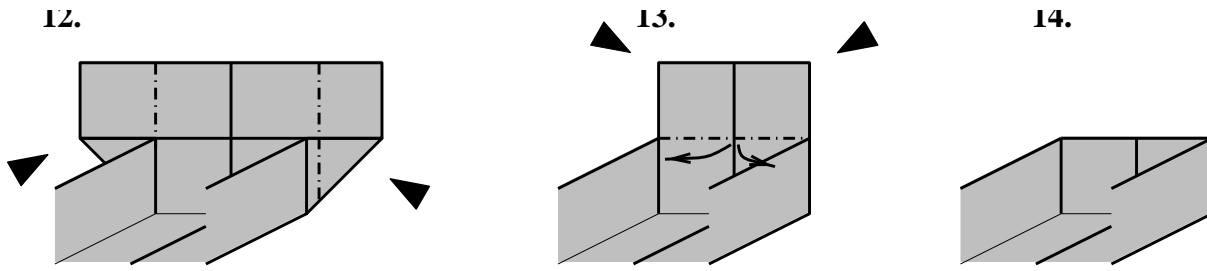


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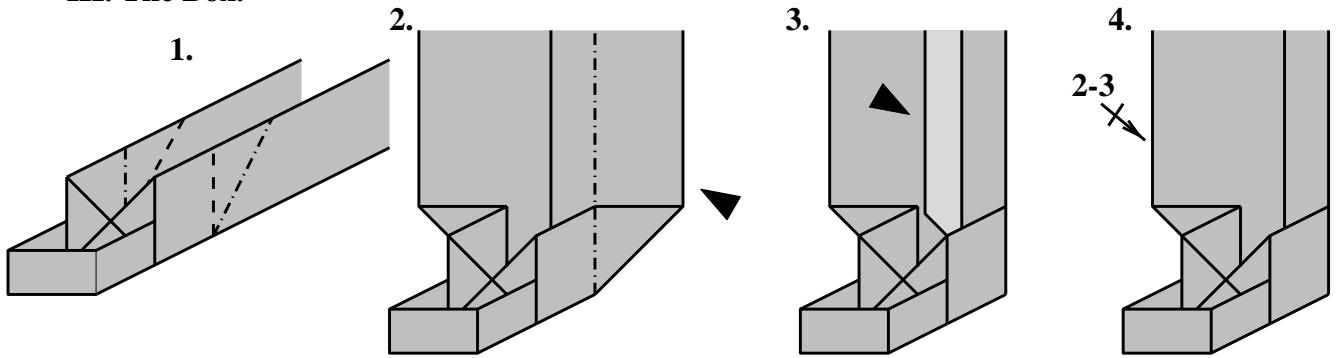


II. The Locker

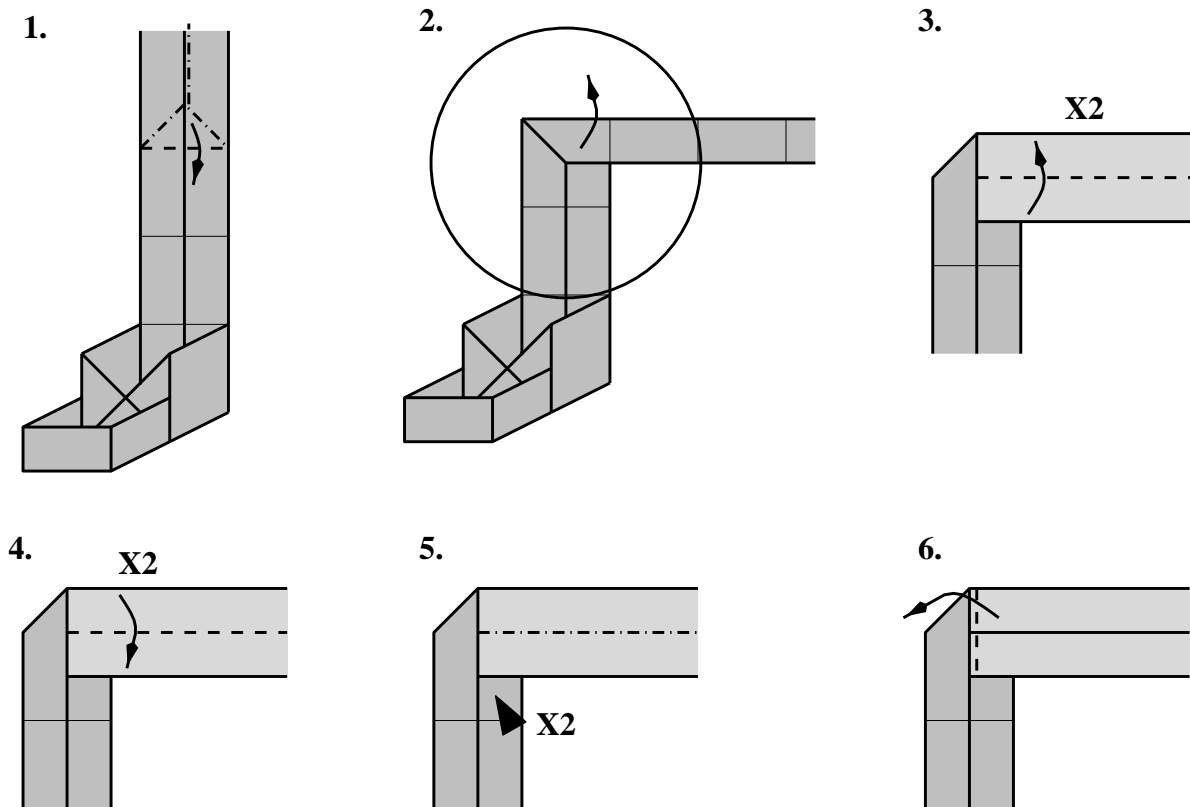


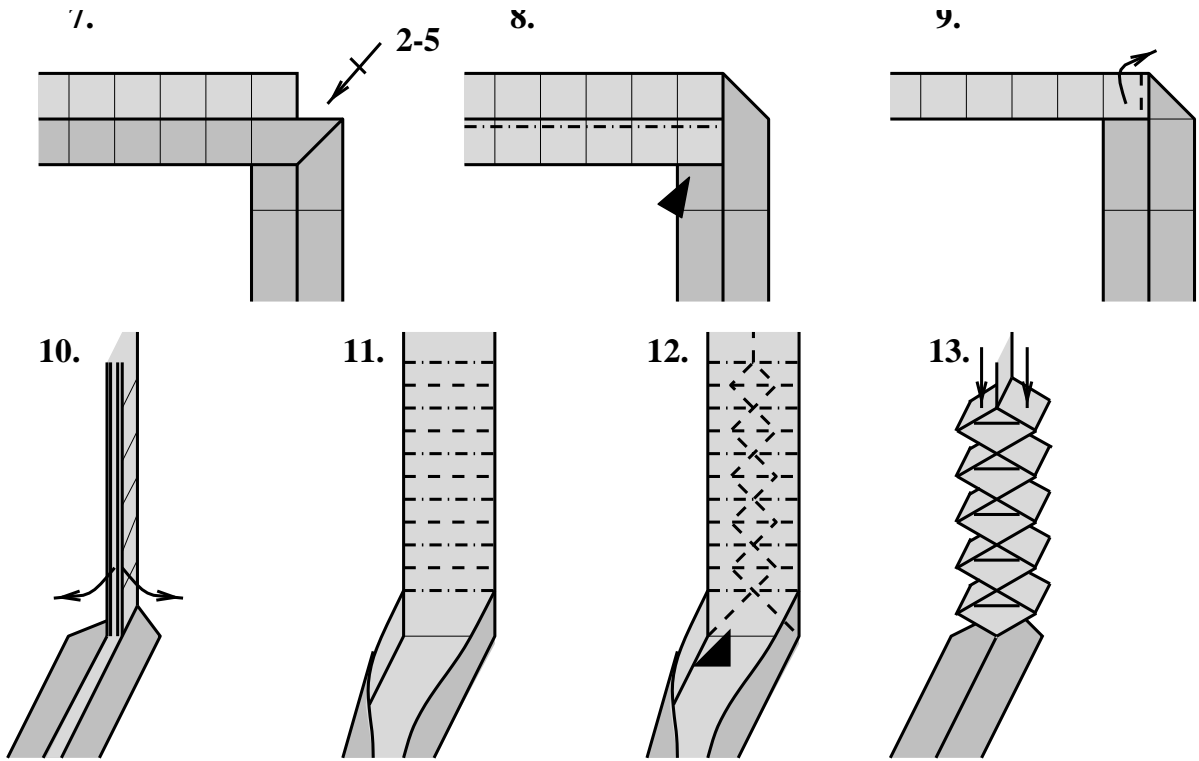


III. The Box.

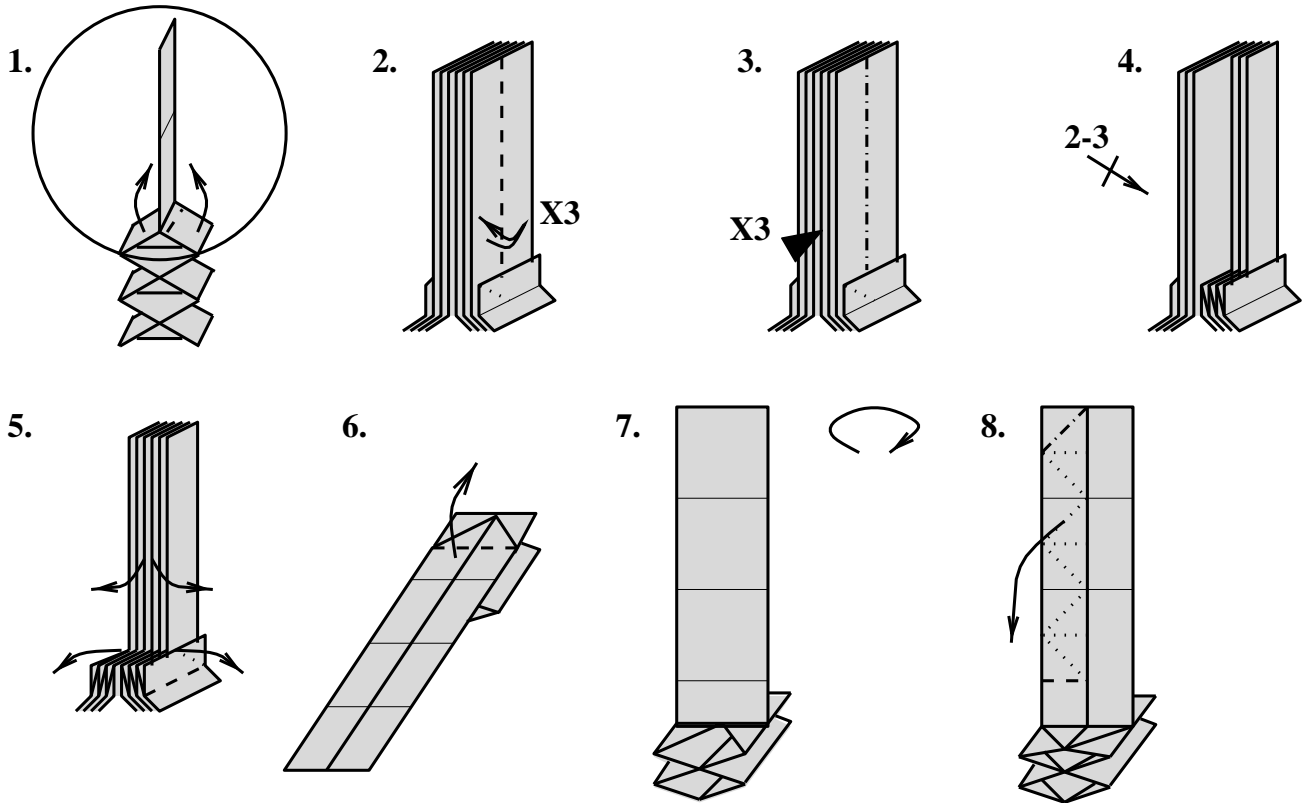


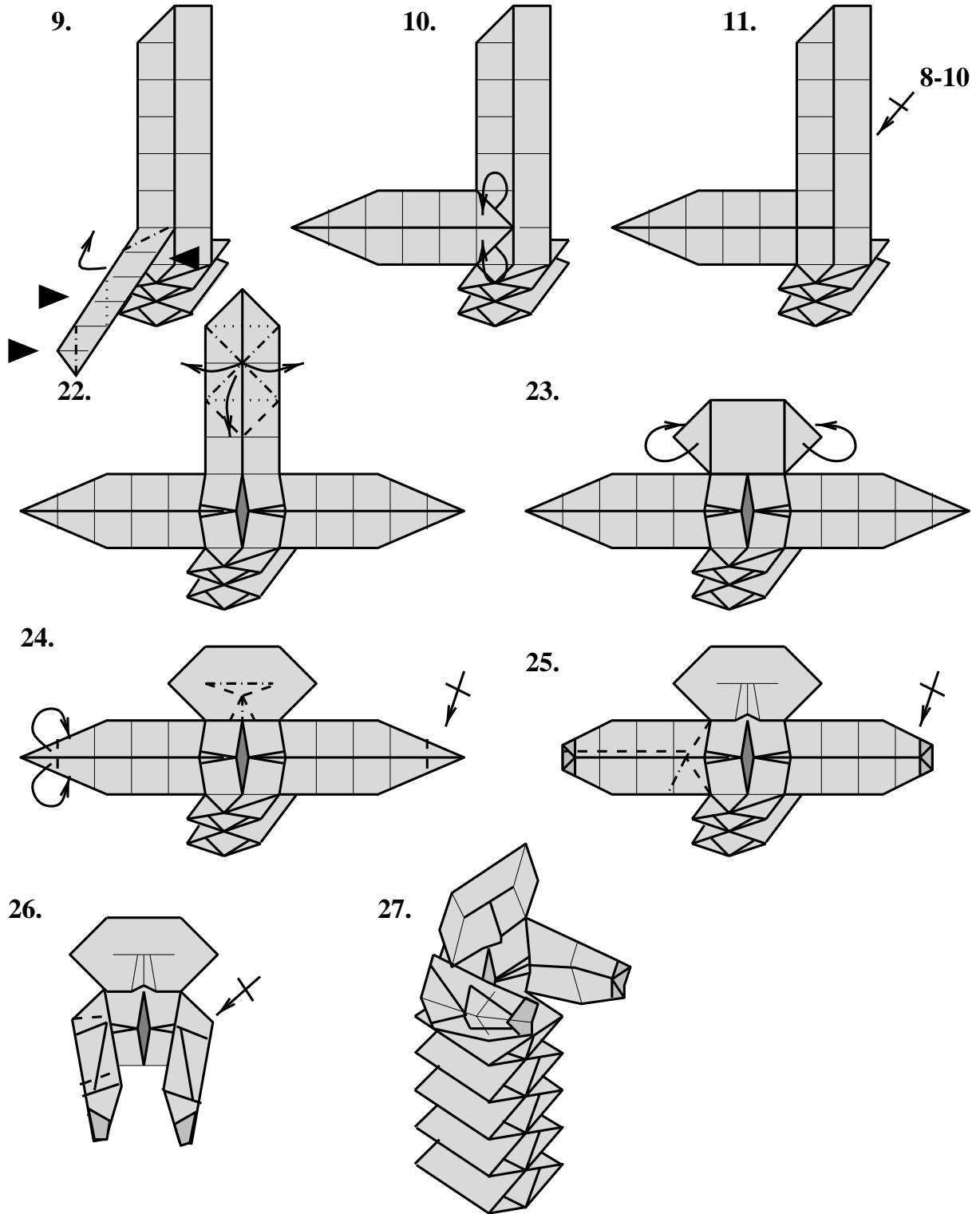
IV. The Spring.



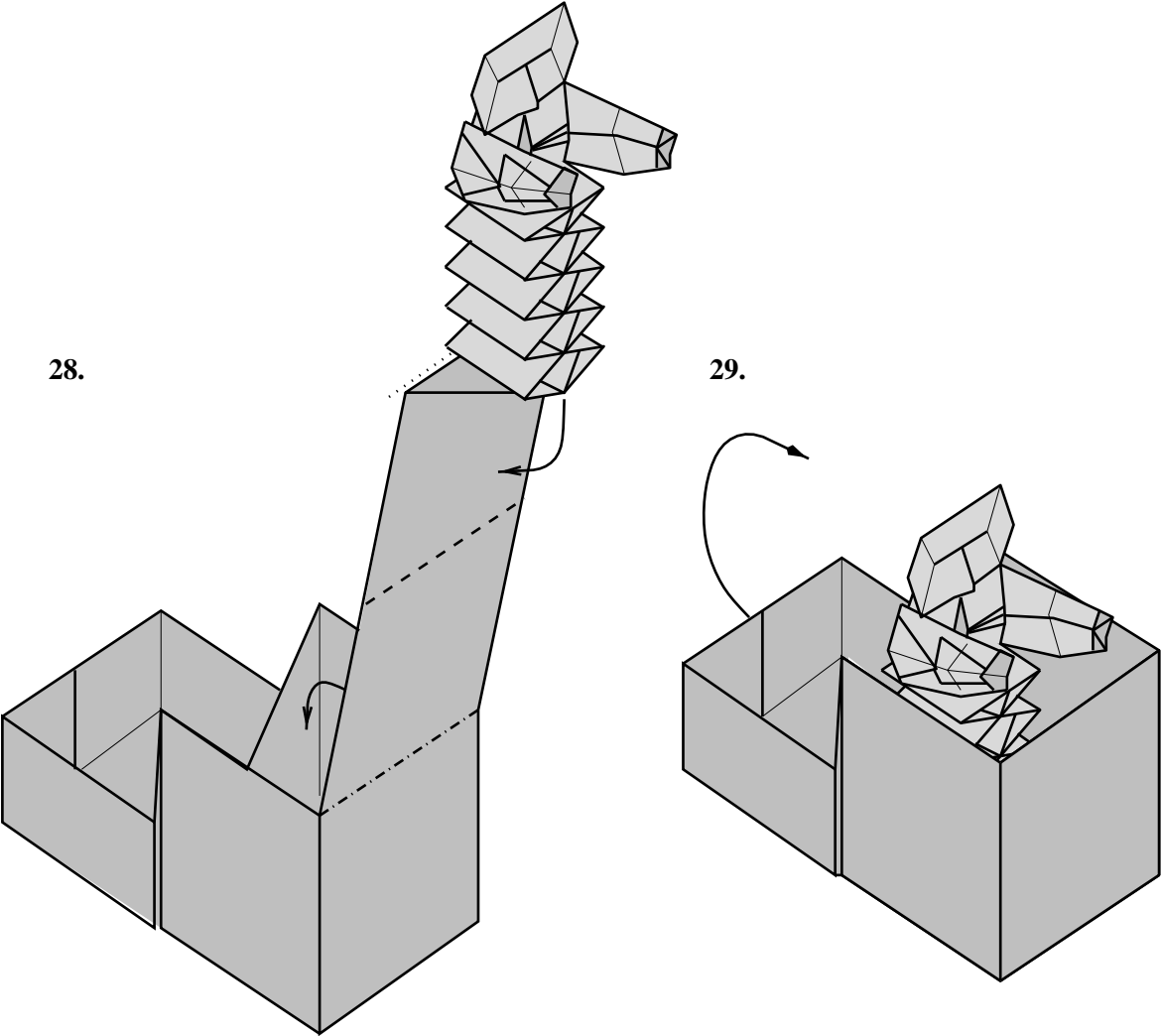


V. Jack.





VI. Assembly.



I. Precreases.

1. Start with 2x1 rectangle, white face up. Mountain fold so that corner meets indicated point.
2. Mountain fold at the middle of the rectangle, valley fold so that indicated points meet. Note that the valley fold does NOT meet the corner at the bottom.
3. Unfold back to step 1.
4. Crease created at step 2 is $\frac{2}{3}$ of the left square. Using this crease, add creases to divide each square in three.
5. Add creases to divide each square in 6.
6. Add creases only where indicated. This will locally divide the squares in 12.
7. Add two *shifted* diagonal creases.
8. Precreases are completed. This is how the crease pattern should look like.

II. The Locker.

1. Valley fold at $\frac{1}{4}$ on both sides.
2. Only part of the precreases are indicated. Using indicated folds raise left and top sides at 90° , this is like an asymmetric rabbit ear.
3. Inside reverse fold the inner flap.
4. Repeat steps 2 and 3 on the other side. Rotate the model.
5. Valley fold down the front flap where indicated. You need to add a hidden inside reverse fold on both sides.
6. Raise and open the front flap (one layer) using indicated creases.
7. Unwrap one layer on the left, undoing a reverse fold where the locker meets the box.
8. Valley fold the left flap in half.
9. Note how the layers on the left differ from the layers on the right. Repeat steps 8 and 9 on the right side.
10. Raise the front layer to complete the locker, adding indicated creases. Rotate the model.
11. Difficult: closed sink on both sides.
12. Difficult: Tuck all layers inside the model. You will have to open slightly the two side layers. This locks the locker.

13. The locker is completed.

III. The Box.

1. Raise the back side of the model, using indicated creases.
2. Closed sink.
3. Closed sink again.
4. Repeat steps 2 and 3 on the left side. The box is completed (see next step).

IV. The Spring.

1. Rabbit ear where indicated. The distance is two times the side of the box.
2. Raise up one layer only. You will have to release some trapped paper.
3. Raise up next two layer (one at a time). Again some trapped paper has to be released.
4. Valley fold down two layers (one at a time). Note how the creases hidden on the left have been rearranged during the process.
5. Closed sink the first two layers.
6. Valley fold to the left.
7. Indicated precreases corresponds to one half the side of the box. Repeat steps 2 to 5 on this side.
8. Sink the remaining flap.
9. The colour reversal of the spring is completed. Raise the front layer at 90° and rotate the model.
10. Open up the model, symmetrically. There are three flaps on each side.
11. Precrease. The mountain folds corresponds to existing creases. The valley folds have to be added between consecutive mountain folds ($1/4$ the side of the box). There are 6 mountain folds and 5 valley folds.
12. Close back the model, keeping the previous creases in place. The indicated diagonal creases should form *by their own*.
13. The spring is completed. Note there is 5 levels on each side. Flatten the creases of the previous step by pushing on the top of the spring.

V. Jack.

1. Raise both sides of the last level of the spring.

2. Fold and unfold three layers at the same time.
3. Difficult: open sink the three layers, using existing creases. Start with the right layer.
4. Repeat steps 2 and 3 on the left side.
5. Open up the model, while pulling down the upper part towards the spring.
6. Valley fold up.
7. Difficult: pull down the front layer only, as far as possible. Dotted lines correspond to hidden creases. Hidden layers will be completely rearranged in the process.
8. Like so. This will form the left arm. Spread squash the arm towards the left. To do so, you need two squash folds on the left.
9. Wrap around one layer on each side (top and bottom) of the arm.
10. Repeat steps 8 to 10 on the right side, to form the second arm.
11. The model should look roughly like this.
12. Open the top of the front flap, while pulling it down.
13. Wrap around one layer on each side of the head. This will lock the head.
14. Wrap around one layer at the top of the left arm, using existing crease. Repeat on the right arm. Shape the head.
15. Rabbit ear both arms.
16. Add more shaping on the arms, head and body to give jack a 3D shape.
17. This is how Jack and it's spring should look like.

VI. Assembly.

1. This is how the full model should look like. Using a mountain and a valley fold, put Jack and its spring in the box.
2. Done. Push on Jack, while closing the box. It will spring at next opening.