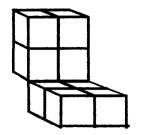
FLEX-A-CUBE



8

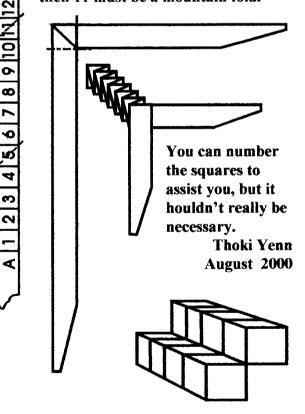
E)

PHILIP NOBLE

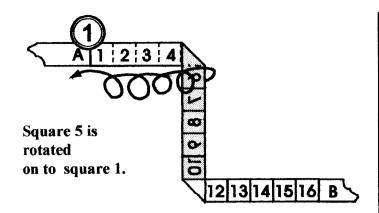
This little wonder of a toy is designed by Philip Noble, Scottland.

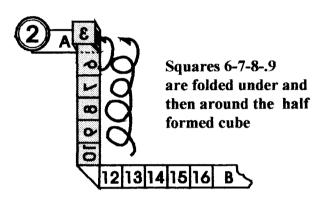
Soon it will be 20 years ago since I saw the instructions by Paul Jackson in the booklet FLEXAGONS, which is No. 11 in the series of BOS booklets. An Italian description can be found in the book: CONTRO MOSSA by Luisa Canovi, and in Dec.92 Ernst Blauenstein made a description in "DER FALTER" No. 10 in German, and now it is here translated into English from The "Danish Origami Center" No. 4. Get a roll of TELEX STRIP, (I got my supply from the Post & Telegraf Customer Service: Rolls of 100 meter, 18 mm wide - you call it ticker tape). Practice to fold a single cube from a strip about 50 cm long. When you can do this without any diffuculties, then you can prepare a strip 2.50 to 3 meter long by folding it into exact squares by the socalled mouse-ladder tecknique. For those few unhappy persons who do not know the mouse-ladder I give a short explanation: The strip is folded sharply in half. Hold it vertically. Left edge is twisted and laid precisely into the the sharp fold, pres flat. If you have done this right you have a precise diagonal in a square 18x18 mm, turn the thing so that this diagonal is away from you. Now alternatively fold the horizontal and the vertical in over each other, be precise in aligning the squarrs on top of each other until the strip is nearly used up. Cut the ends to form a long point.

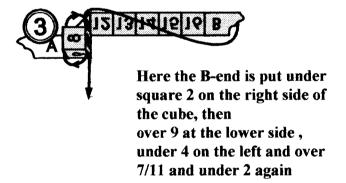
It takes 16 squares per cube. 8 cubes is 16x8= 128 squares plus a few more for the lock. The strip is 1.8 cm wide, so you need 128x1.8=234 cm, but it is good to have a little extra lenght, ca. 300 cm. When you have made the precise mouse-ladder you anravel it again. You are now ready to start. The diagonal in the middle of the strip is considered as no. 5, go on counting 6-7-8 & 9-10-11. In square No. 11 fold a diagonal parallel with the one in no. 5, but opposite action, ie. if 5 is a valley, then 11 must be a mountain fold.



First learn how to fold a single cube.









First cube complete.

When serious folding starts, fold the first cube in the middle of the 3 meter long strip

The diagonals are always placed in squares no. 5 and 11 of the 16 squares that are used for each cube.

The diagonals are always parallel but folded as valley and mountain, depending on where the hinge to the next set has to be placed.

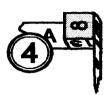
Numbers on both sides of the rehearsel strip makes it easier to follow the diagrams.

On the drawings on the following pages the numbers are merely decorations.

OBS: If your numbering is oriented as on my drawings then the connection to the next set comes out at the foot of the figure 2.

The first two cubes: SET No. 1

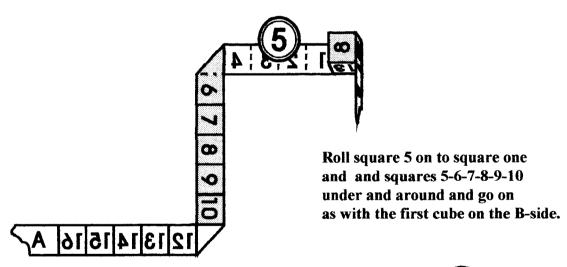
Drawing no. 4 is repeated here as a memory help.



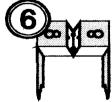
In Fig. 5 you see it here as the first cube n the B side of the strip.

The A side of the strip id sahown here with the diagonals folded in squares 5 and 11 put in square

OBS: The diagonal in square 5 is folded so that the strip with the 6-7-8-9-10 squares are pointing the same direction as the neighboring cube.

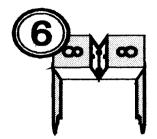


In Fig 6 you see the strips comeing out of the cubes in the same direction



The next two cubes, SET No. 2

Drawing 6 is repeated here supplied with drawn on hinges.

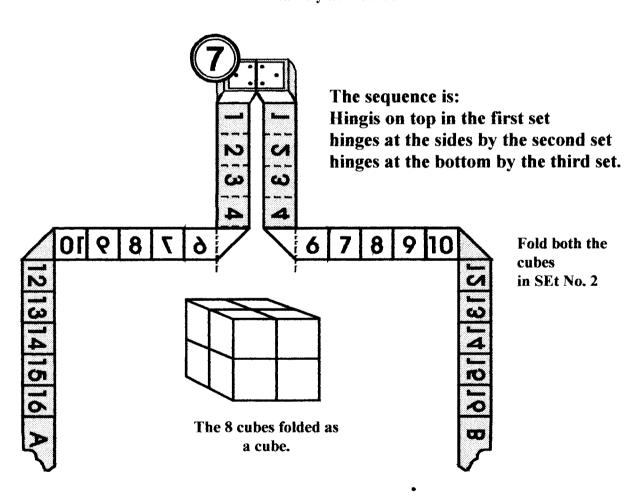


Open the hinges so that the strips are placed flat on the tablen and the hinges on top

Fold the diagonals in the squares 5 and 11 on both the A side and the B-side

You already know where the strips will come out of these cubes.

namely at the sides

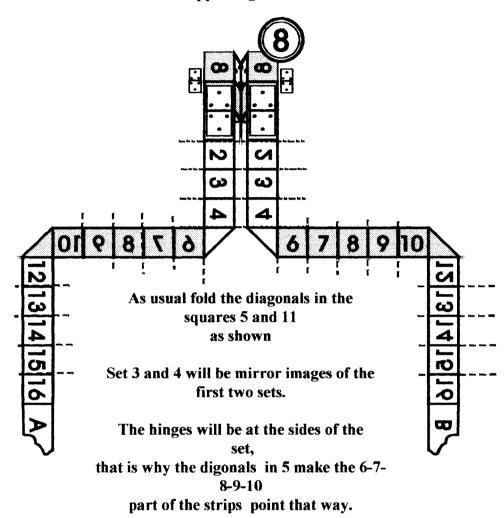


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The next two cubes, SET No. 3

Close the hinges on the first set.

That will place the strips at the upper edge of the cubes



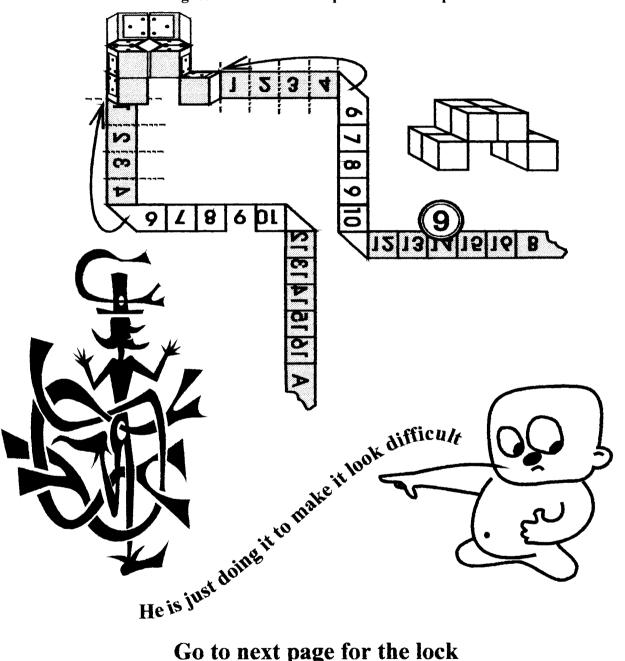
At the No. 4 and last Set there is a slight change in n the procedure

Go to Drawing Fig. 9

Page - 5 -

The fourth and last SET

So that the higes on the last set can arrive at the top it is necessary this time to fold the cubes the other way around by rolling the squares so that the diagonal in square 5 goes behind the first square on the strips

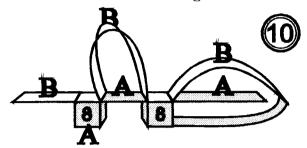


Go to next page for the lock

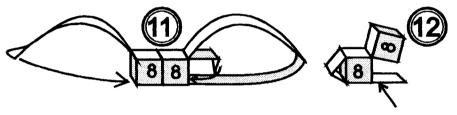
THE LOCK.

Only the last two cubes are shown

The final loop on the B-Side is not pulled tight, if you have done it, push it out into a rather large loop as shown in Fig. 10.



Pass the the end of the A. side strip under the B strip so the the A-end is going into the B Loop and pass the free end of the B strip under the top layer of the A Cube. As I have attempted to Show in Drawing No. 10.



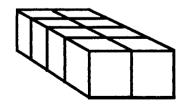
Hold the B loop open while you pull the strips to make the cubes go together as in Fig. 11.

Cut the end off at the A strip leaving 2 squares and cut the end to form a point that you can push back in under the cube, then tighten the loop.

The last loose end is passed under the lower edge of the A Cube, as in Fig 12..

Tighten and cut off close.

CONGRATULATION



MAKE MANY OF THEM AND MAKE MANY PEOPLE HAPPY, or even better, teach them how to do it.