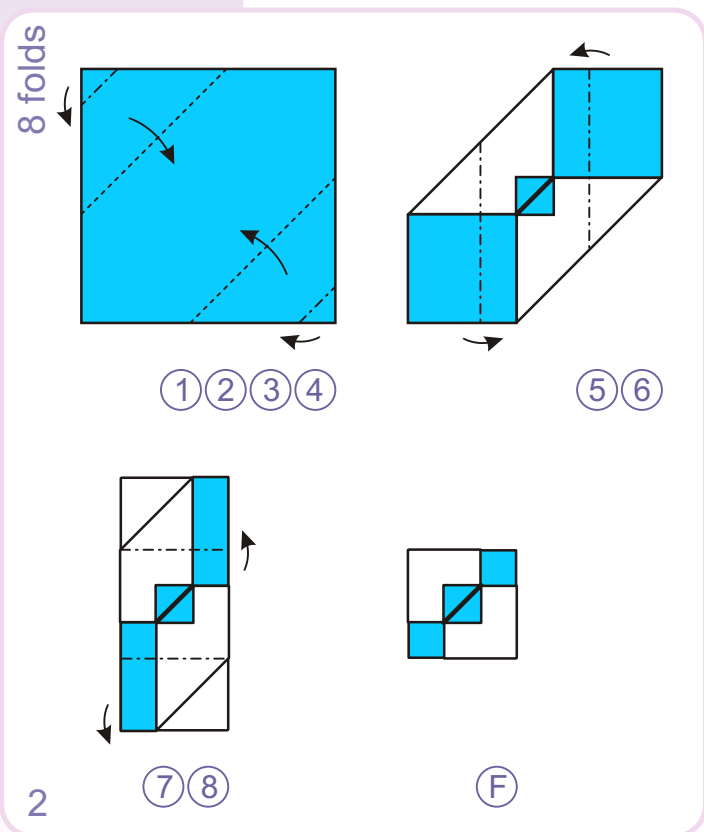
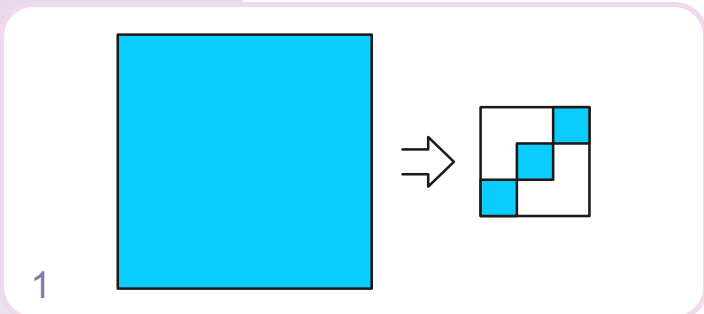


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The Origami Checkerboard Puzzle

by Serhiy Grabarchuk

You have a square piece of paper colored on one its side and white on the other; it's a traditional ("standard") paper shape for most Origami creations.

The object is to fold it several times so that you get a smaller square with the checkered pattern shown in Figure 1. How to do this with eight folds is shown in Figure 2.

Now your task is to get the pattern first with seven folds, then with six folds, and finally with only five single folds. Of course, you may use a new square piece of paper for every of these puzzles - it's more convenient.

September 1, 2003

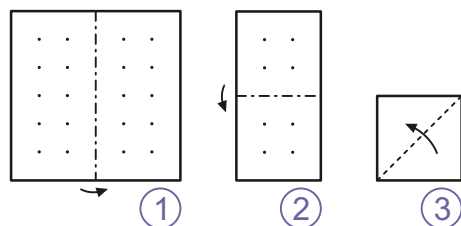
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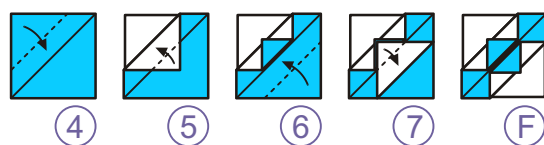
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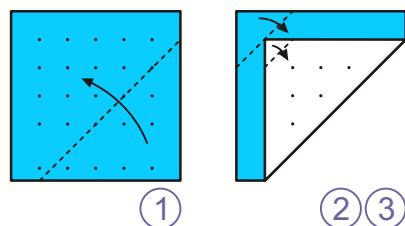
7 folds



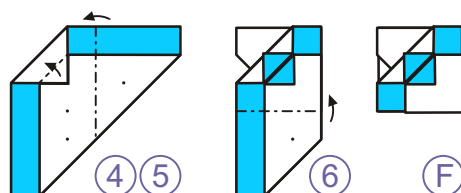
1



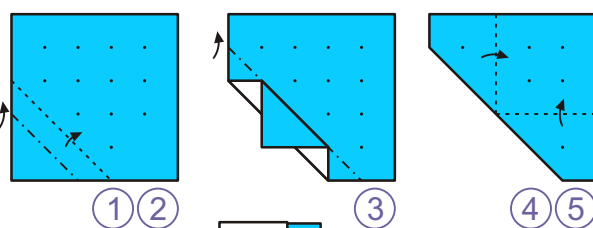
6 folds



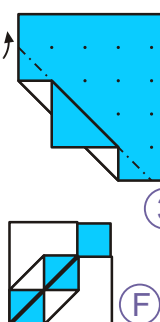
2



5 folds



3



The Origami Checkerboard Puzzle (solution)

The diagrams show the three solutions to the puzzle - in seven, six and five folds, respectively.

Solutions 1 and 2 were found by Serhiy Grabarchuk.

Solution 3 was discovered by Kozy Kitajima and Hiroshi Yamamoto. They additionally developed a dozen of similar patterns to get by folding a single square piece of Origami paper. These puzzles are presented by Tom Hull at the OrigamiUSA web site in the Fun Stuff section. Try them... and enjoy!

September 1, 2003

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