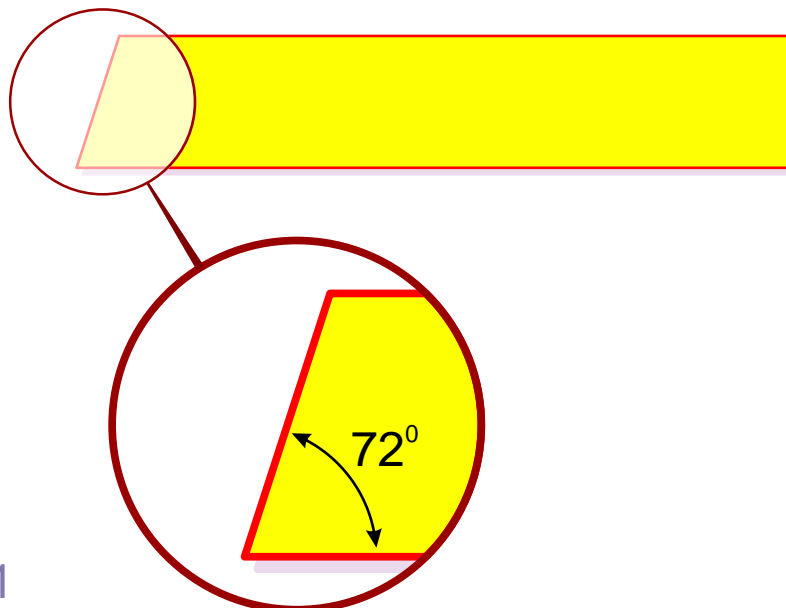


Treasure of Classic
and Modern Puzzles

Folding Puzzles



Puzzle 1



Puzzle 2

Strip to Pentagon

by Henry E. Dudeney

Puzzle 1. Take a strip of paper with the one edge cut out as shown in the upper illustration. The object of the puzzle is to fold this strip into a perfect pentagon.

Puzzle 2. This is a generalized version of Dudeney's puzzle. The object is the same - to fold the strip into a perfect pentagon - except that this time the strip is a perfectly rectangle ribbon of paper as shown in the lower illustration.

November 9, 2004

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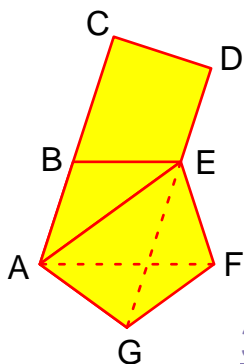
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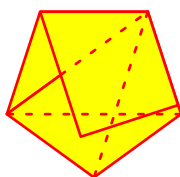
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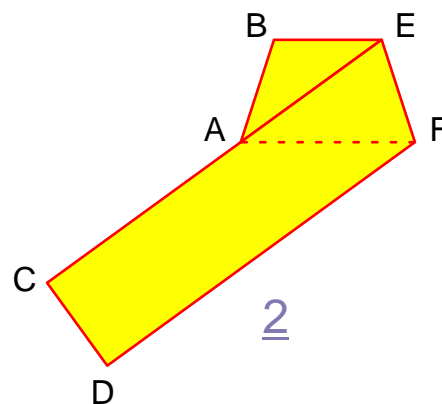
1



3

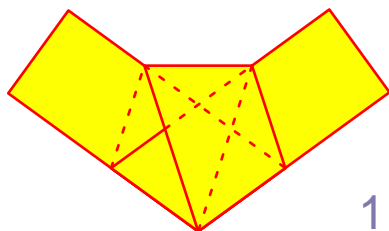


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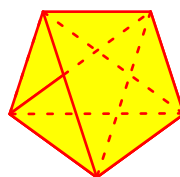


2

Solution
to Puzzle 1



1



2

Solution
to Puzzle 2

Strip to Pentagon (solution)

Puzzle 1. Fold the side AB so that it lies along BC, and find E so that BE equals AB. Then unfold the side AB. See Step 1 in the Solution to Puzzle 1. Now fold the strip as shown in Step 2; point A lies on EC. This will give you the point F. Fold the strip back as shown in Step 3; its edge AC lies along AB. This will give you the last point G. You already have the shape of a perfect pentagon. Finally, fold the rest of the strip as shown in Step 4, and a perfect pentagon is ready!

Puzzle 2. Neatly tie the strip in a knot, and then gently press it (while continuing very gently to tighten it). This allows to make the knot flat. See Step 1 in the Solution to Puzzle 2. As you can see the knot itself is a perfect pentagon already. So now fold the ends of the strip along its sides as shown in Step 2, and you get a perfect pentagon again!

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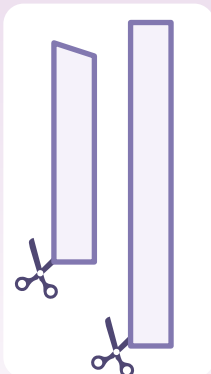
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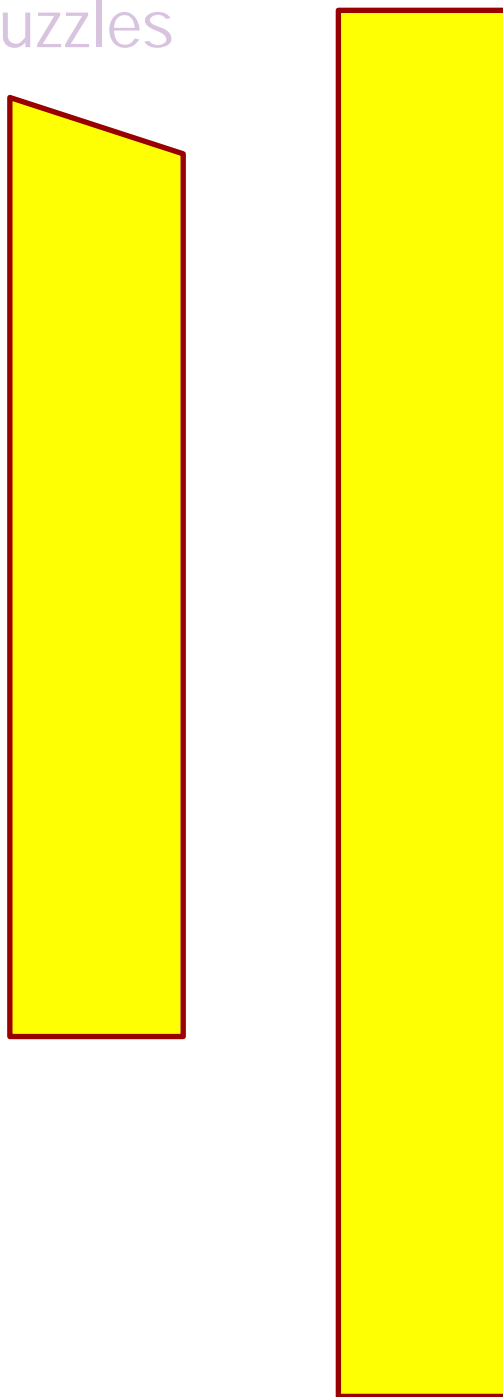
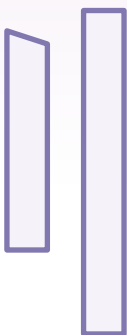
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1



F



Strip to Pentagon (patterns)

To produce the patterns first print them out. Then follow the diagram shown in the left column above - from step 1 to step F (finish).