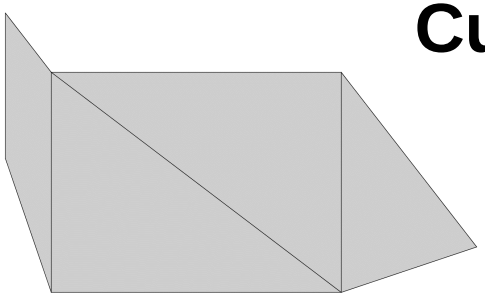
Cutter Puzzle



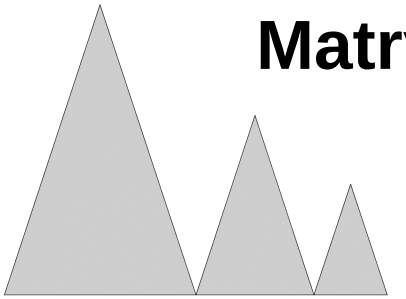
Christoph Lohe, 2015

Arrange four pieces in a symmetric shape.

There are three known solutions, at least one mirror symmetric solution and at least one with 180 degree rotational symmetry.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

Matryoshka Puzzle



Christoph Lohe, 2016

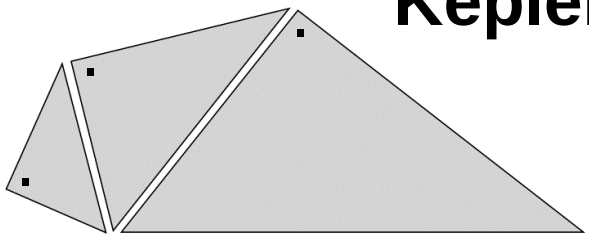
Arrange three pieces in a symmetric shape.

Nine known solutions, at least one mirror symmetric solution and at least one with rotational symmetry.

It is not too difficult to find a solution. The challenge is to find nine solutions, all with three pieces.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

Kepler Triangles



Christoph Lohe, 2016

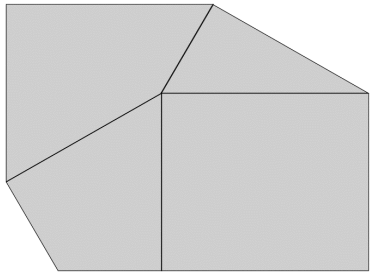
Arrange three pieces in a symmetric shape.

15 known solutions, at least one mirror symmetric solution and at least one with rotational symmetry.

It is not too difficult to find a solution. The challenge is to find 15 solutions, all with three pieces.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

Yell-Oh Puzzle



Christoph Lohe, 2016

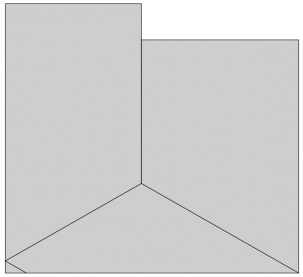
A: Arrange <u>two</u> pieces in a symmetric shape.

B: Arrange <u>three</u> pieces in a symmetric shape.
shapes which embed solutions of A are not allowed.

C: Arrange <u>four</u> pieces in a symmetric shape.
shapes which embed A or B solutions are not allowed.

Known solutions: 5 A, 5 B, and 1 C (3 different arrangements)

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.



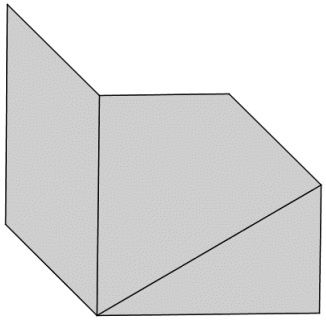
Splinter Puzzle

Christoph Lohe, 2016

Arrange four pieces in a symmetric shape.
One known solution.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

<u>Attention</u>: includes a very small piece. Pay attention that it is not eaten by a small child. This puzzle is not for children!

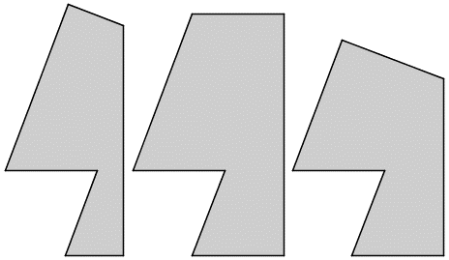


Diamond Puzzle

Christoph Lohe, 2016

Arrange three pieces in a symmetric shape.
One known solution.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.



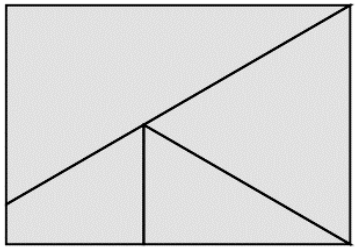
Moai Puzzle

Christoph Lohe, 2017

Arrange three pieces in a symmetric shape.

One known solution.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

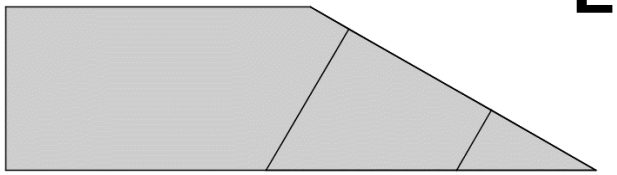


Rectangle Puzzle

Christoph Lohe, 2017

A: Warmup - put the equilateral triangle aside, and arrange a symmetric shape with the <u>three</u> remaining pieces. Six known solutions.
B: Arrange four pieces in a symmetic shape. An assembly which contains an identical arrangement of the 3-pieces from a "Warmup"-solution, does not count as a solution. Seven known solutions.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

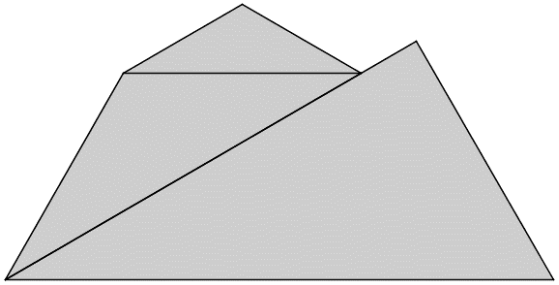


Lucky Find

Gennady Yarkovoj

Put together a symmetric shape using all three pieces of the puzzle. One known solution.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

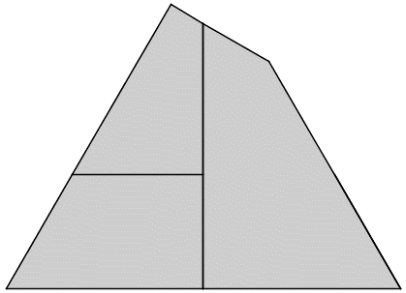


Y-Puzzle

Gennady Yarkovoj

Put together a symmetric shape using all three pieces of the puzzle. One known solution.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.

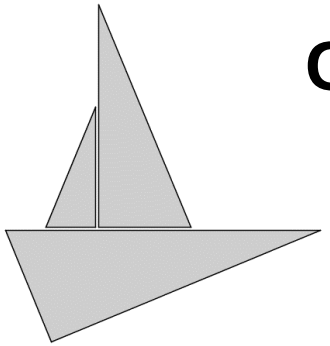


Shuriken

Gennady Yarkovoj

Put together a symmetric shape using all three pieces of the puzzle. One known solution.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.



Crimean Motives

Gennady Yarkovoj

Put together a symmetric shape using all three pieces of the puzzle. One known solution.

All pieces flat on a table. No overlap of pieces. The shape must be contiguous. Pieces must share at least part of an edge with another piece. You cannot have simply point contact.