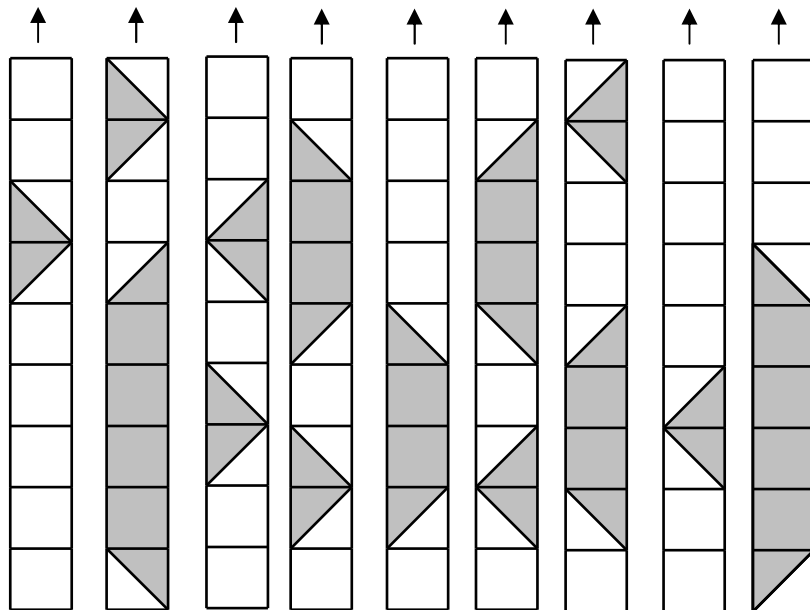


# Puzzle Competition

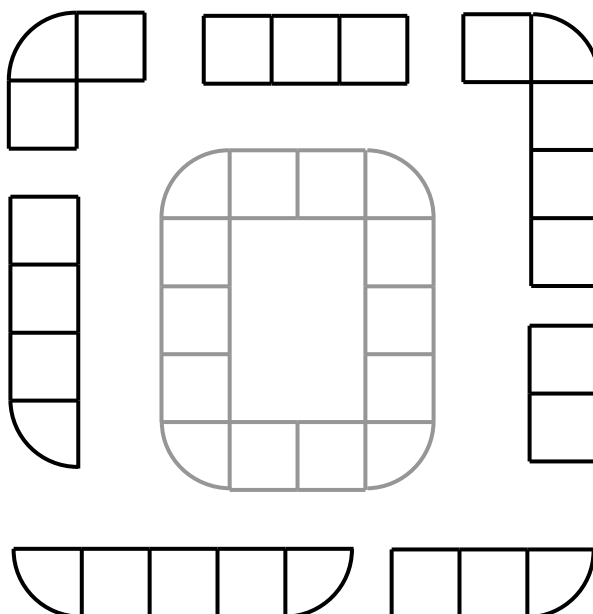
## Puzzle 1.

Rearrange the nine pieces, without rotating, flipping nor overlapping, to form a  $9 \times 9$  square with four shaded squares.



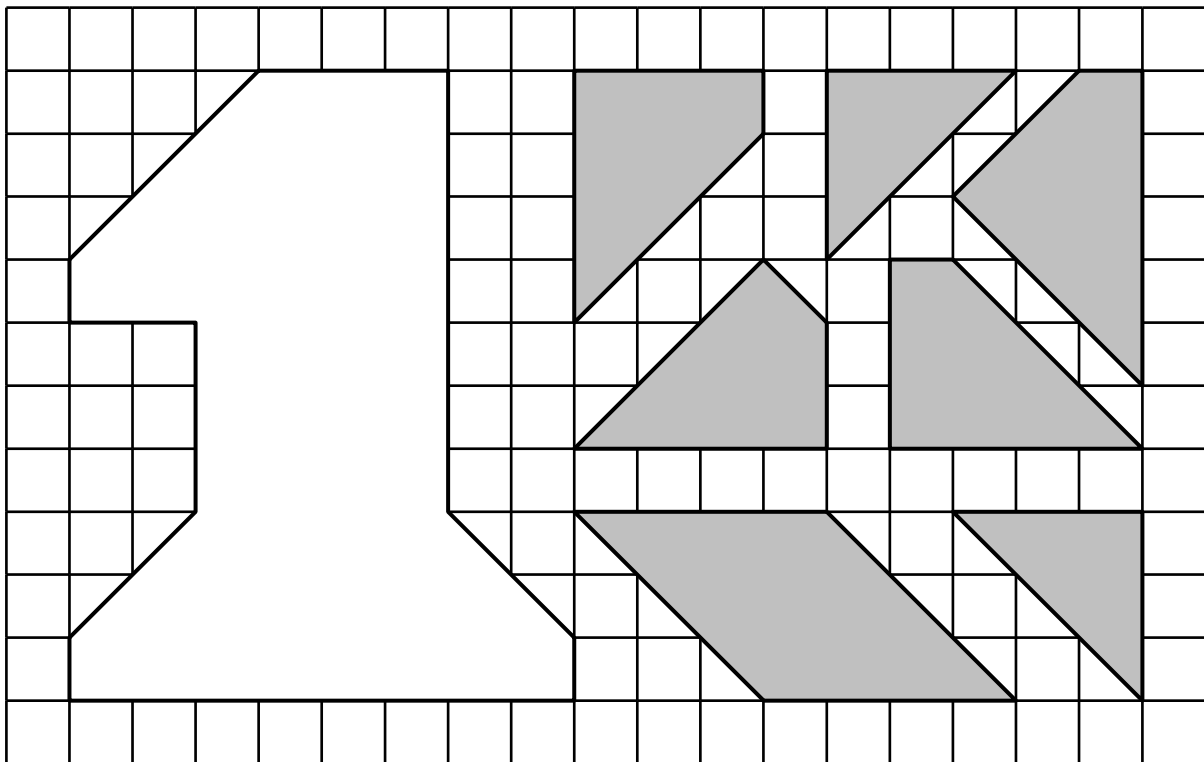
## Puzzle 2.

Use some of the pieces on the outside to make the window sill inside. The pieces may be rotated or flipped, but they may not overlap.



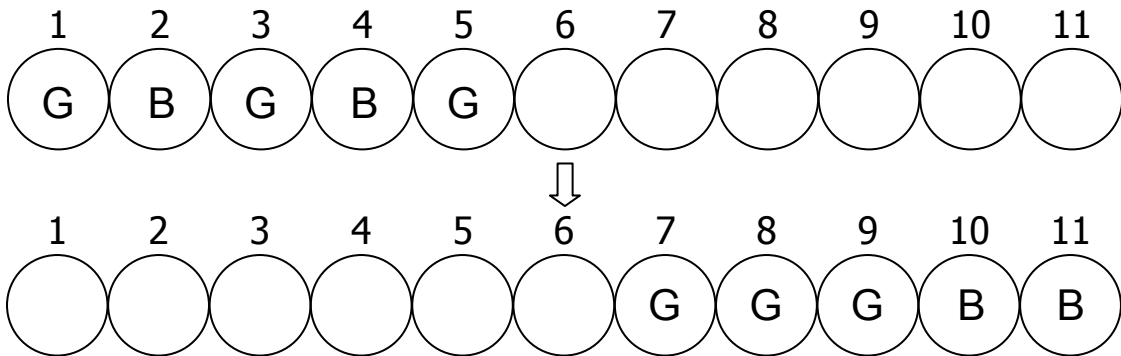
**Puzzle 3.**

Use the seven shaded pieces on the right to form the Big Number One!



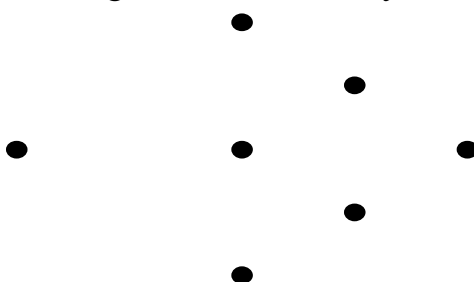
**Puzzle 4.**

There are eleven chairs in a row. A girl is sitting on each of chairs 1, 3 and 5, and two boys are sitting on chairs 2 and 4. In each move, a boy and a girl sitting next to each other may stand up and move to two empty chairs next to each other. Whoever sits on the lower numbered chair before the move must still sit on the lowered numbered chair after the move. Try to have the two boys sitting on chairs 10 and 11 and the three girls sitting on chairs 7, 8 and 9, with the least number of movements.



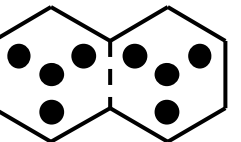
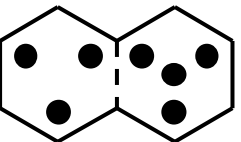
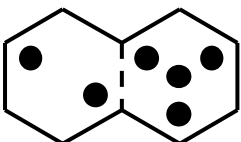
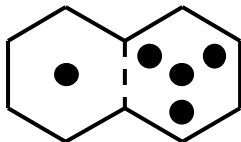
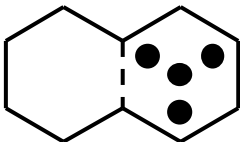
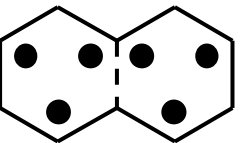
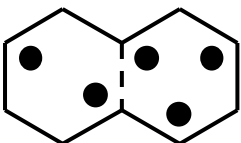
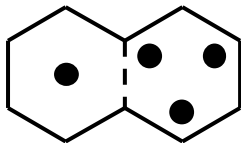
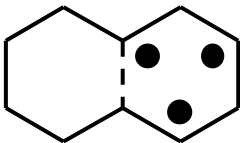
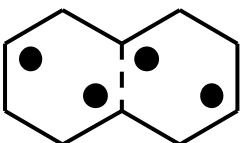
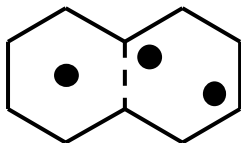
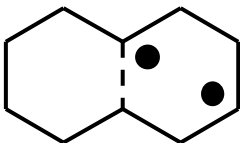
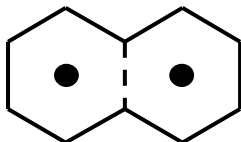
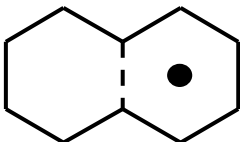
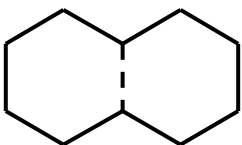
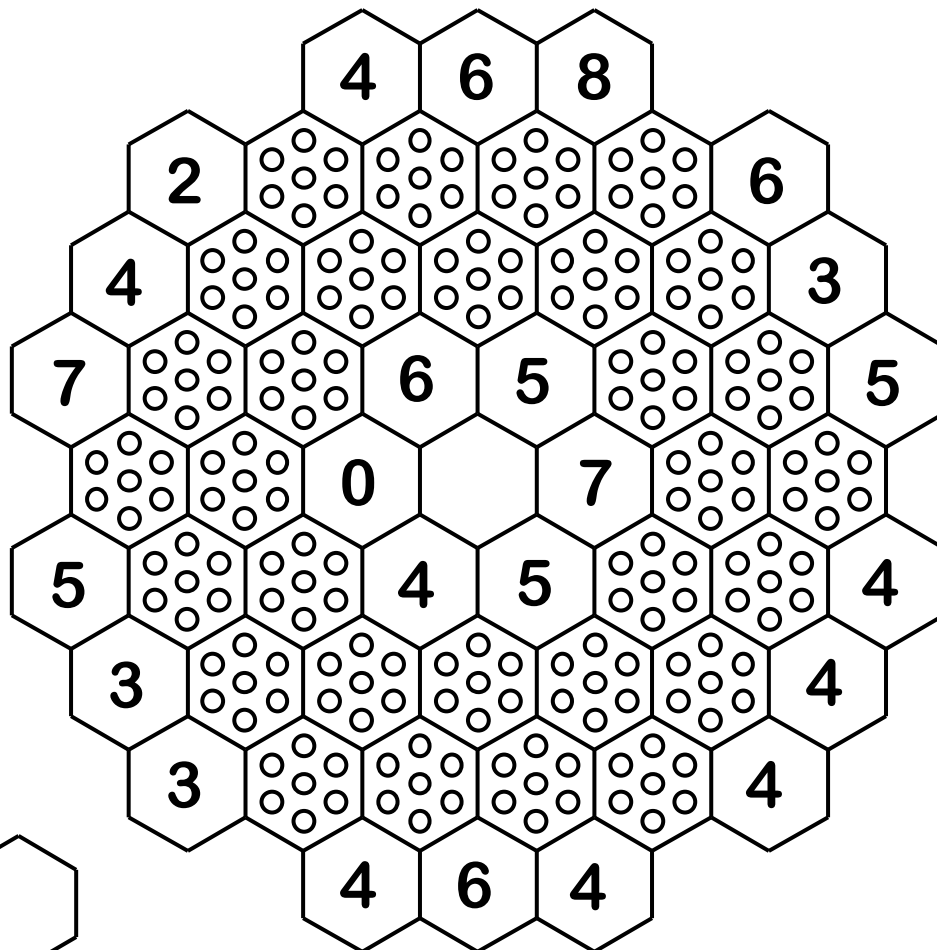
**Puzzle 5.**

Without lifting your pen from the paper, draw 3 straight lines that passes through each of the seven points in the diagram below exactly once.



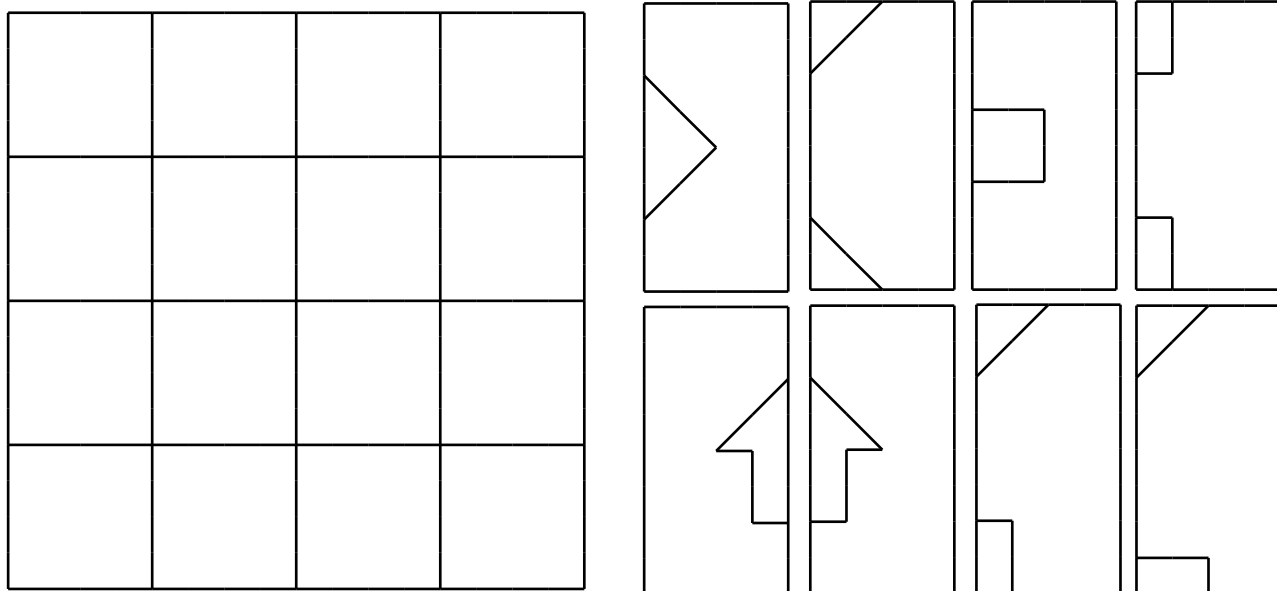
**Puzzle 6.**

You have fifteen hexagonal dominoes on the bottom half of the page, which must be placed within the grid above it so that each of the numbers around the grid is equal to the sum of the dots in the hexagons adjacent to that number. For example, the bottom hexagon with a 6 in it means that the two hexagons adjacent to it must contain (from left to right) either 2 and 4, 3 and 3, or 4 and 2 dots. The dominoes can be rotated, but can not be flipped nor overlapped.



**Puzzle 7.**

Place the eight rectangular pieces on the  $4 \times 4$  board, each covering two cells, so as to form four arrows pointing in different directions. The pieces may not overlap. They may be rotated but not flipped.



**Puzzle 8.**

The grid on the right side of the illustration below consists of ten hexagons divided into triangles. Ten hexagonal pieces with the stylized digits 0 through 9 depicted on them are shown below. The object is to place these pieces in the ten hexagons of the grid so that no digits touch each other, except at a corner point or tip. Some triangles in the grid are grayed out; no part of a digit may be placed in those triangles. Pieces may be rotated, but not flipped over nor overlapped.

