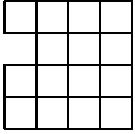


Tiling with Polyominos

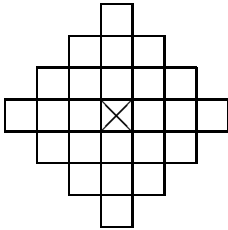
Polyomino is a shape build from squares that touch on their sides. You are probably familiar with both dominoes and tetrominoes - have you ever played Tetris? We explore what can be built from polyominoes - or what shapes can be tiled with polyomino-shaped tiles.

1. Can the following figure be made of 3x1 triominoes?

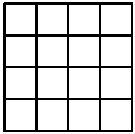


2. Can you tile a 3x5 rectangle with 1 3x1 triomino and 4 L-triominoes? Can you tile it with 2 3x1 triominoes and 3 L-triominoes?

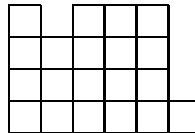
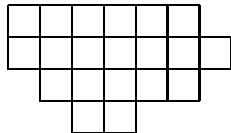
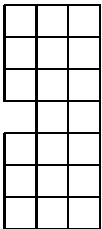
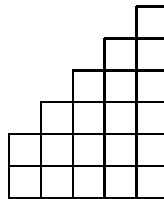
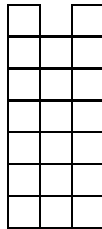
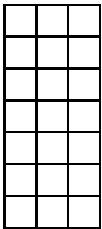
3. Arrange eight L-triominoes to create this shape (no tile on black square).



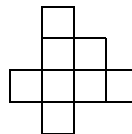
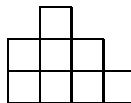
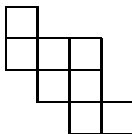
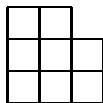
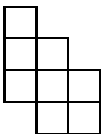
4. Arrange one monomino, one L-triomino, and four straight triominoes to make a square.



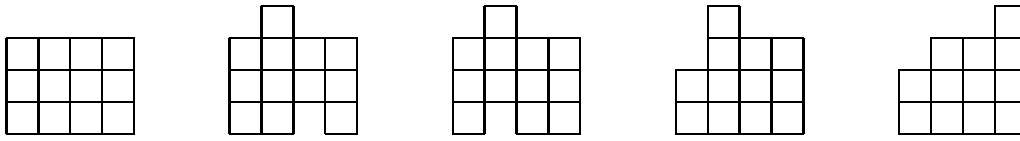
5. Arrange the five tetrominoes (one of each) to create each of the shapes below.



6. Which octominoes below can be made from dominoes?



7. Which of the shapes below can be made with one T-tetromino and four dominoes?



9. Can you tile the figure below with dominoes?

