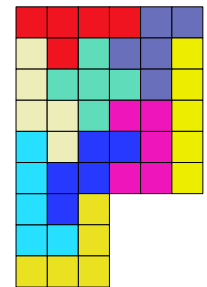


—Pentominoes

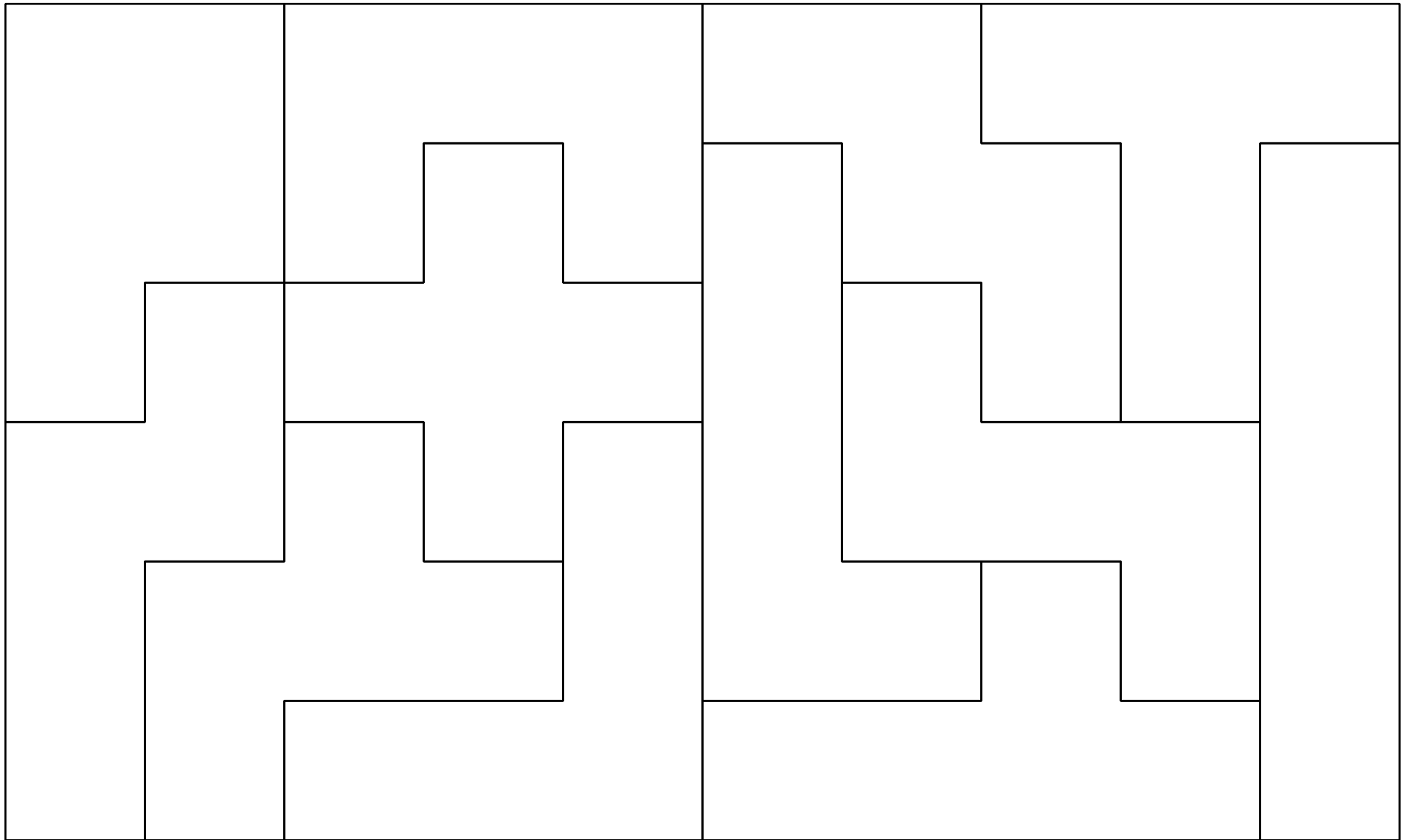
- Pentominoes are shapes made from 5 squares. There are 12 different pentominoes in the set and they can be used for a variety of activities and puzzles. They are usually named after the letter of the alphabet which they resemble, although some imagination may be needed to spot the letter.
- The set offered here is based on a 10 by 6 rectangle. This particular rectangle can be divided into two smaller 5 by 6 rectangles.
- The puzzle works best if you print the shapes you need onto coloured card, laminate them and then cut them out. Solutions can be recorded on squared paper. Sometimes pentominoes need to be turned over.

Some Pentomino Activities

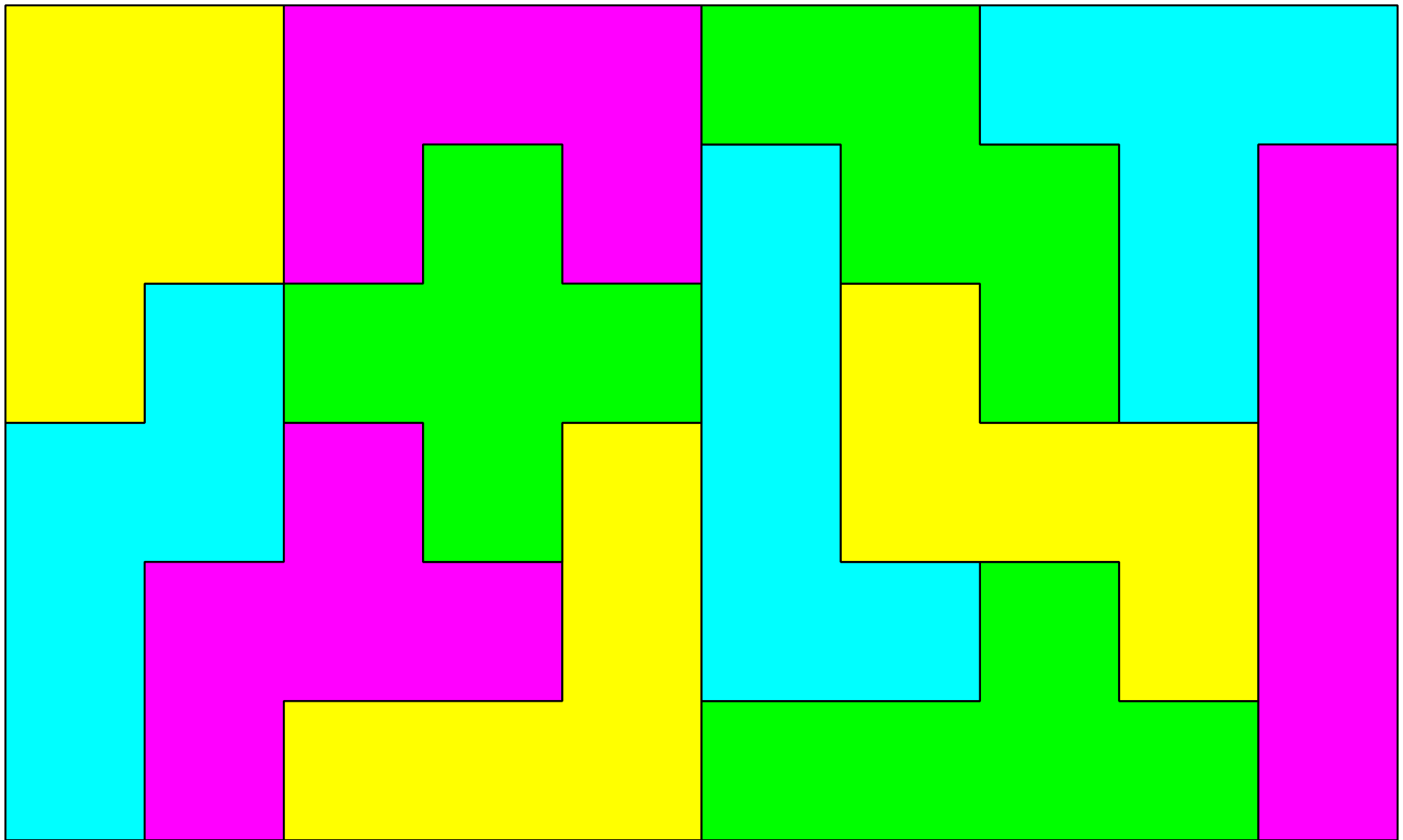
- Make small rectangles. Both 5 by 4 and 5 by 3 are good places to start.
- Make a five by five square. To make this more accessible, one set of pieces is shown in the activity.
- Make larger rectangles. Both 5 by 6 and 5 by 7 are good examples.
- Make rectangles with the full set. This is very hard despite there being thousands of ways to do it. The 20 by 3 rectangle is the simplest to make - there are just two ways to do it.
- Make a larger copy of one of the shapes. There is a template page on the CD for enlarging the P pentomino, using 9 of the pieces. One solution is shown on the right.
- A pentomino game can be played by dividing the pieces among two or three players. Each player places a piece on the game board in turn. Pieces must not overlap each other. The last player to place a piece is the winner. The winner starts the next game. Games typically last 6 moves.



—Pentominoes ————— Blank Set - 10 by 6 Rectangle —



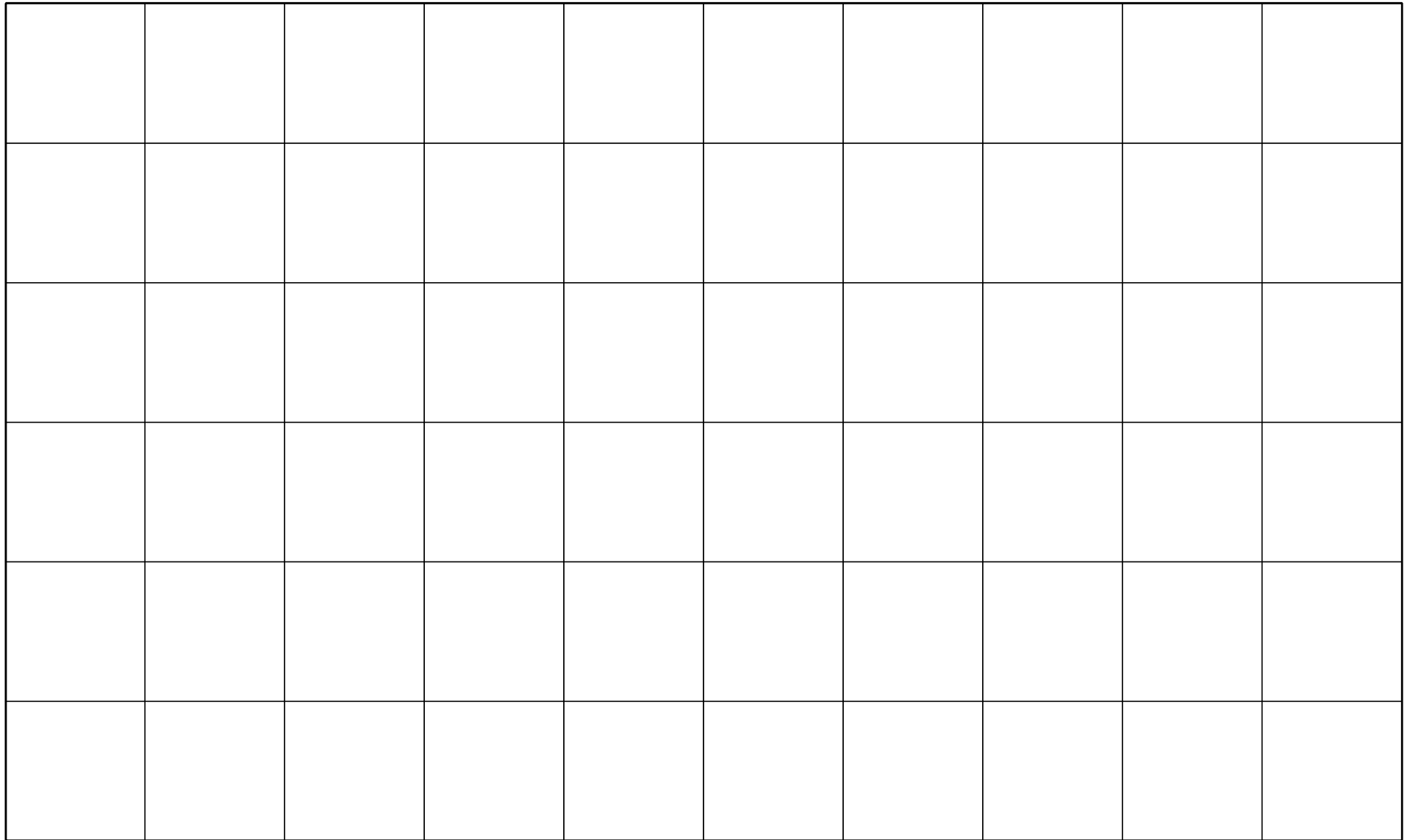
—Pentominoes ————— Coloured Set - 10 by 6 Rectangle —



—Pentomino Game —————

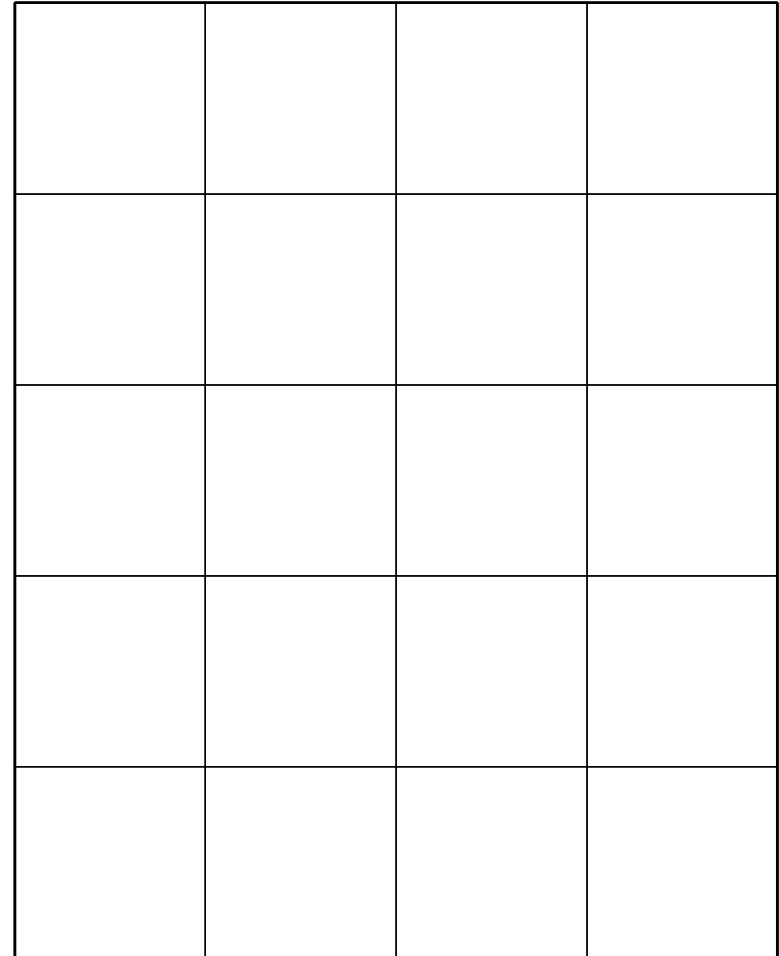
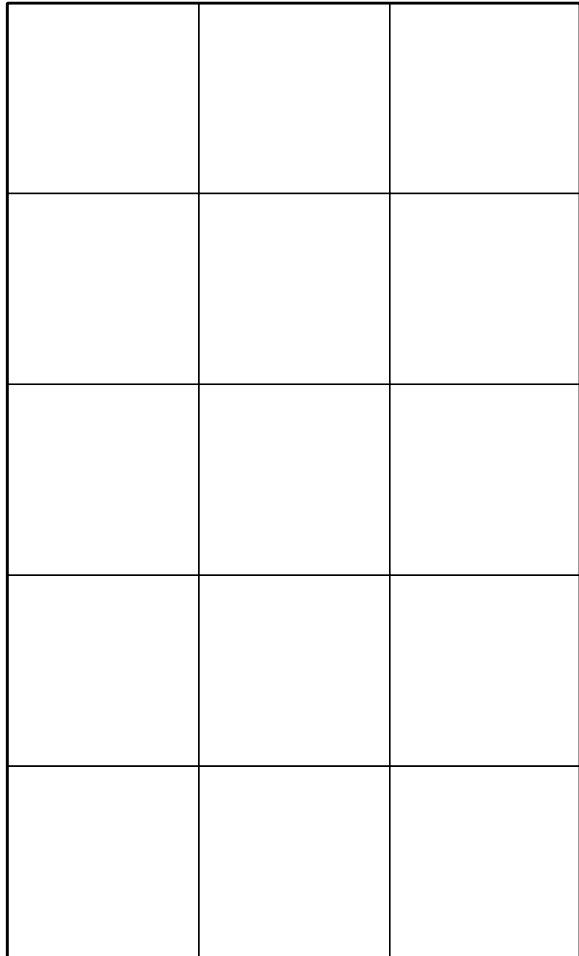
Rules

- ◆ Players take turns to place one pentomino.
- ◆ Pieces cannot overlap.
- ◆ The player who places the last piece wins.
- ◆ The winner begins the next game.



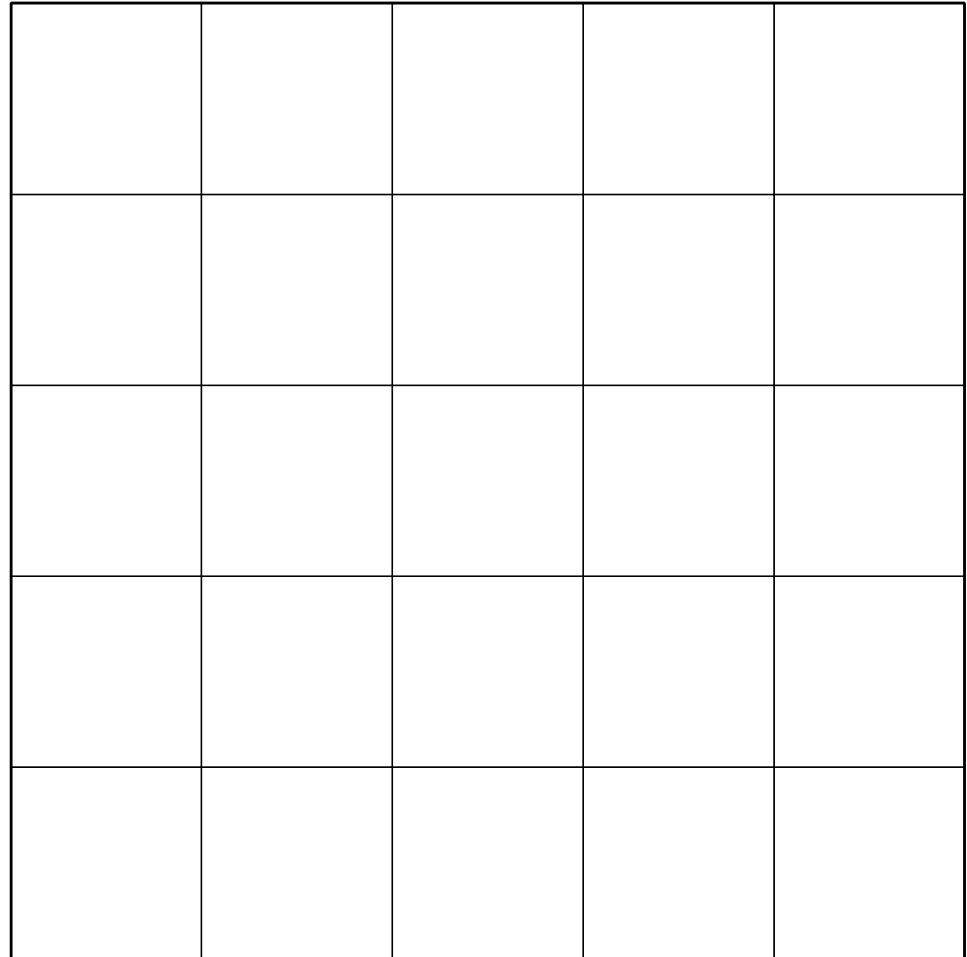
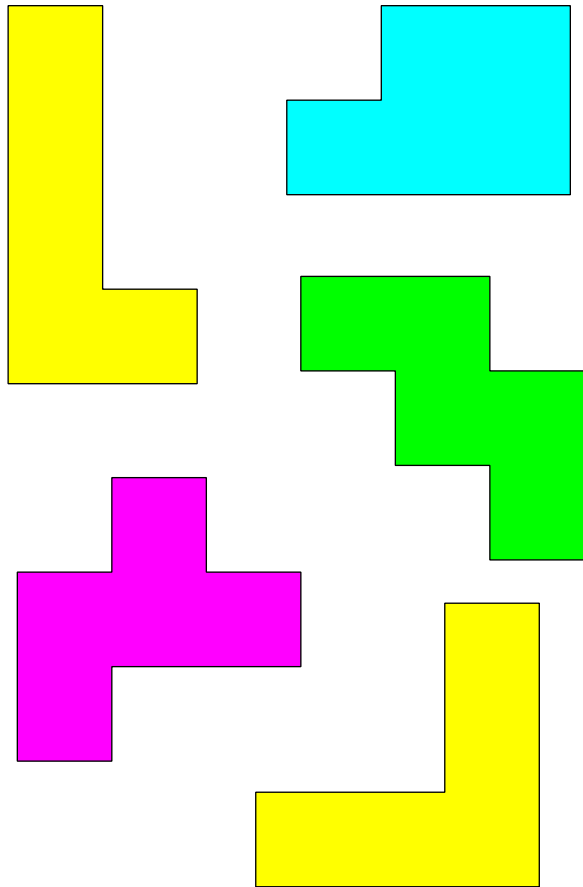
—Pentomino Rectangles

- Find as many 3 by 5 and 4 by 5 rectangles as you can.

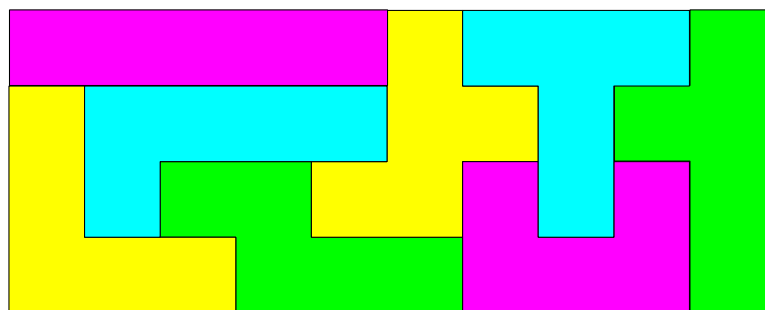


—A Pentomino Square

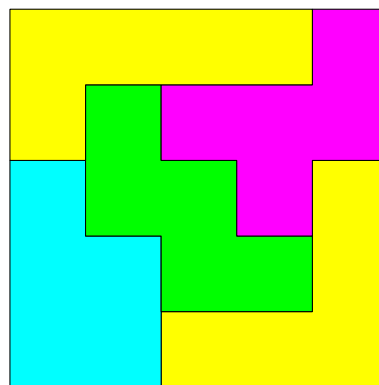
- Use these pieces to make a square.



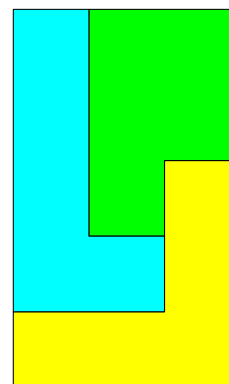
—Some Pentomino Rectangle Solutions



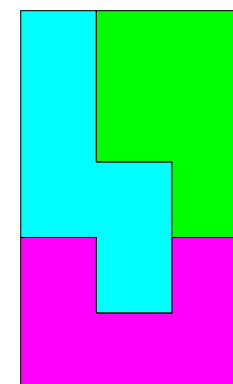
10 by 4



5 by 5

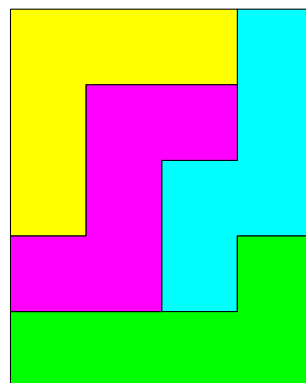
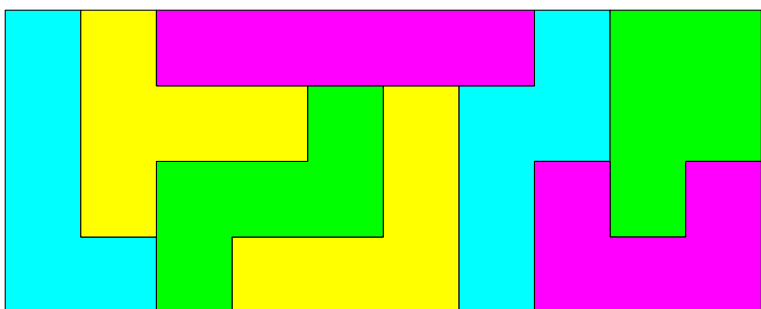


5 by 3



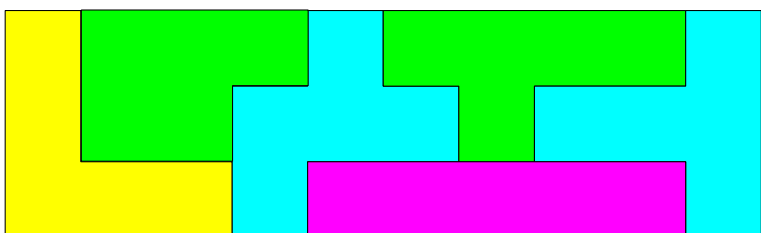
5 by 3

10 by 4



5 by 4

10 by 6
5 by 6 5 by 6



10 by 3

