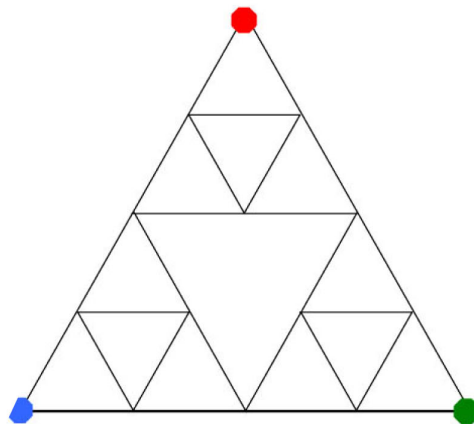


Sierpinski Game

Play in pairs. Decide who will go first. You'll need a ruler and a pen or pencil. Player 1 chooses a corner to start at: red, green or blue. Player chooses one of the nine small triangles pointing upwards as the target.

A move consists of moving your counter exactly halfway to one of the corners. So the move "red" means move halfway from where you are to the red corner. Player 1 has to find a combination of moves which move from the starting corner into the target triangle. The player has to get *inside* the triangle, not on any of its edges. Count the number of moves it takes – that's Player 1's score. Now swap over. Keep a total of the scores and see who can get the lowest score over several rounds.

Extension: Divide each triangle up into smaller triangles. If you choose a triangle pointing upwards how many moves does the other player need to get inside it?



The Towers of Hanoi

Move the rings to the third tower so that they are arranged from biggest to smallest.

Rules:

1. You can only move one ring at a time to a neighbouring tower.
2. You cannot place a bigger ring on top of a smaller ring.
3. Try to do this in the least number of moves possible.

