

TRIANGLE ISLAND



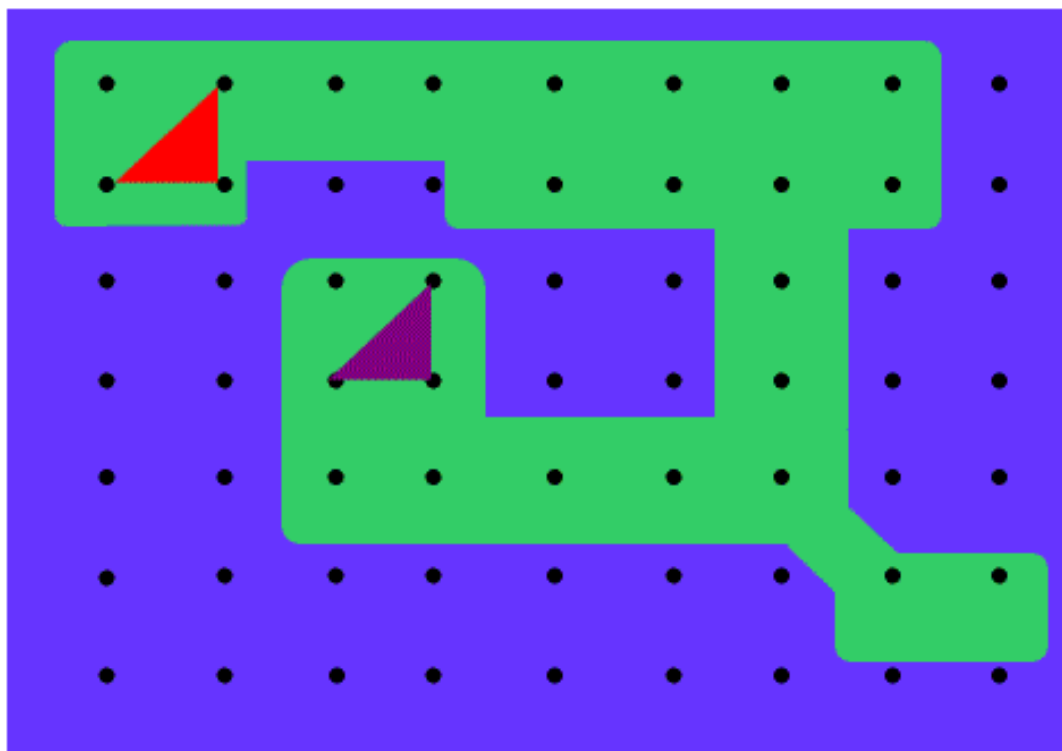
Try this challenge from Nrich:

Instructions below or you can visit their website <https://nrich.maths.org/1888>

King Alonso and his crew have pitched their tent (the red triangle) on the island. Can you move it to the position shown by the purple triangle (Ferdinand's tent)?

You must obey the following rules:

1. You can only move one peg (corner) at a time.
2. Pegs (corners) must stay on the island.
3. The area of your tent (the triangle) must always stay the same but the sides may stretch



GETTING STARTED:

What is the area of the tent?

What will you have to make sure stays the same in order to keep the area of the tent the same?

Experiment by moving different pegs (corners) at a time.

You can download Nrich's template of the island to help you