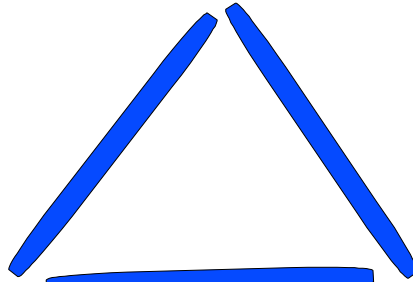




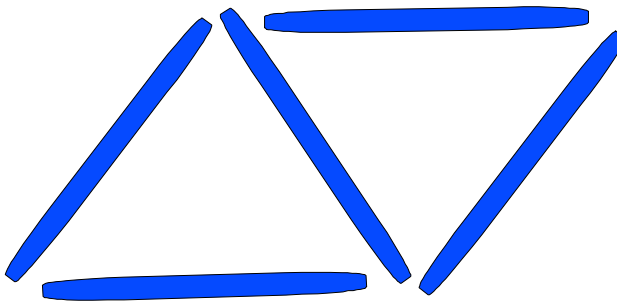
## Shape and Space

Here is a pattern of triangles. As you can see, the sides of the triangles are each made of one matchstick.

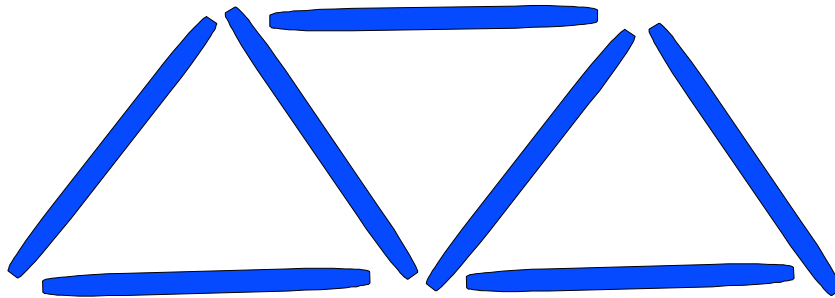
To make one triangle we need three matchsticks.....



To make two triangles we need five matchsticks.....



And so on.....



How many matchsticks will you need to make 25 triangles?

Can you find a two-stage function to work out how many matchsticks you will need to make different numbers of triangles?

Now try to write out your way of working out the numbers of matchsticks you need for different numbers of triangles.