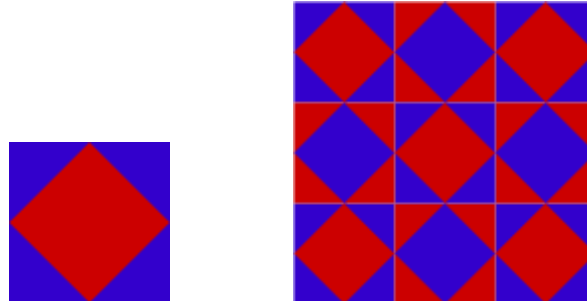


Be a paper mathematician! Patchwork patterns

Once you can make some of the basic shapes and polygons, you can investigate patterns made up of different colour and size shapes.

Square patchwork

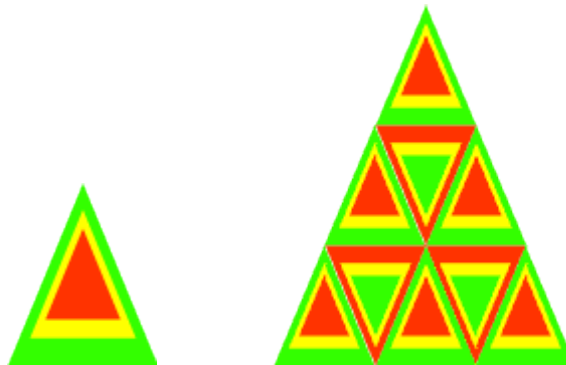
- Make squares in two different colours, one using A4 paper and the other using A5, then put them together to form a unit like this:



What do you notice about these squares? Use them to make a pattern like the one above. Can you make other patterns using units like these?

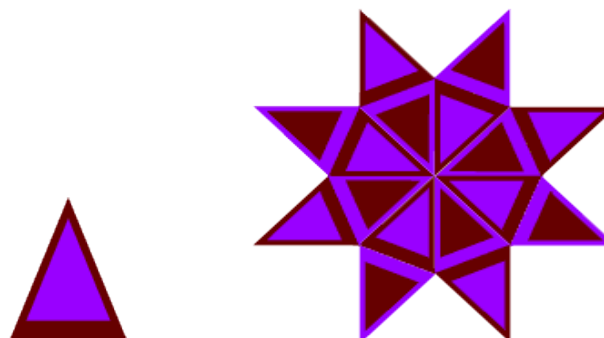
Triangular patchworks

- Make isosceles triangles using different coloured A4, A5 and A6 paper, and centre them on top of each other like this:



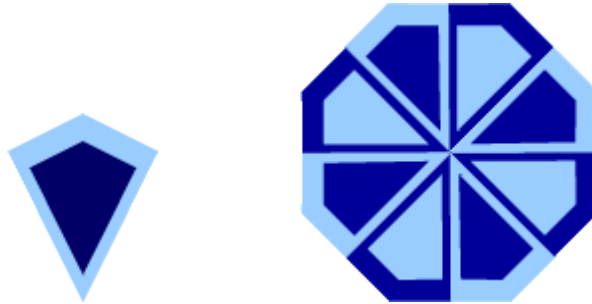
Then use these units to build up a large triangle patchwork like this on the right above. Can you find other ways to make a patchwork of isosceles triangles?

If you use two isosceles triangles rather than three, you can make a star pattern like this one:



Octagonal patchworks

- Can you make this octagonal patchwork out of [kites](#)?



- At the bottom of the page are three octagonal patchworks to make out of [isosceles triangles](#) using triangular tiles made by combining them as in the diagram below. Have a go at making these patchworks.

