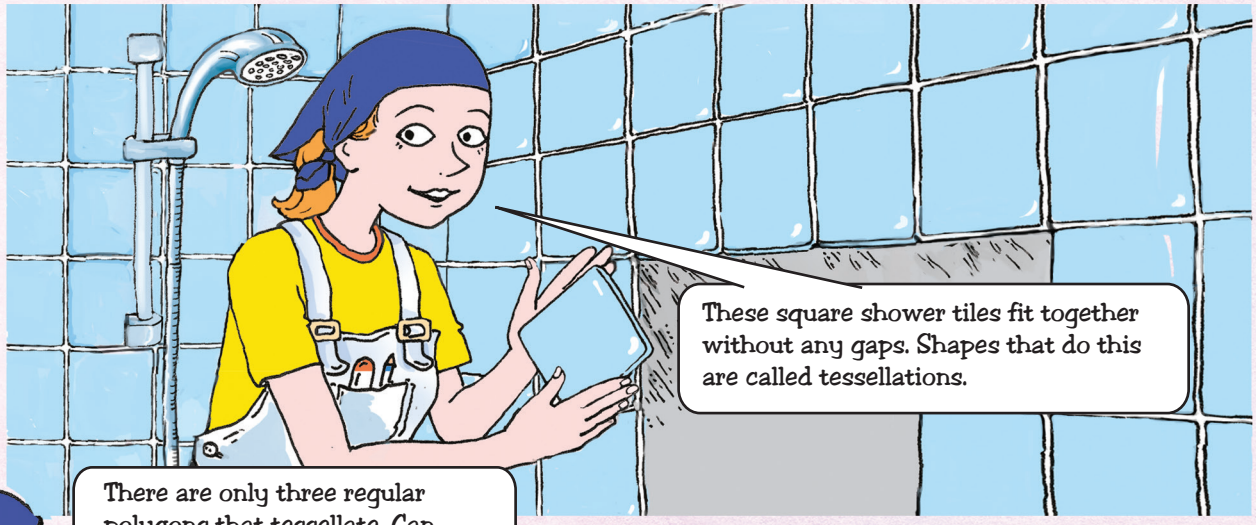
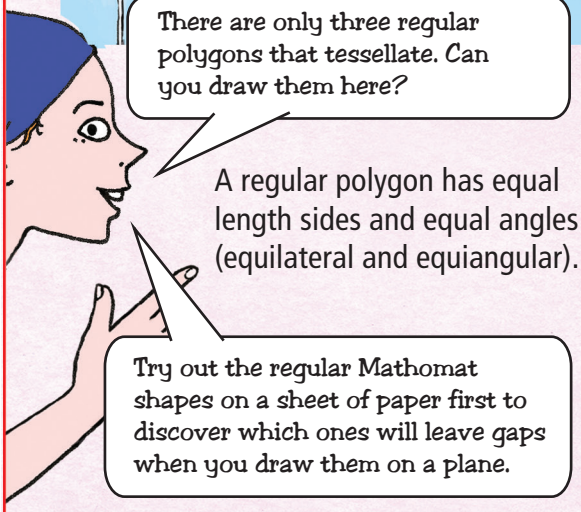
# Get tessellating...

Explore the mathematics of tessellations using Mathomat.

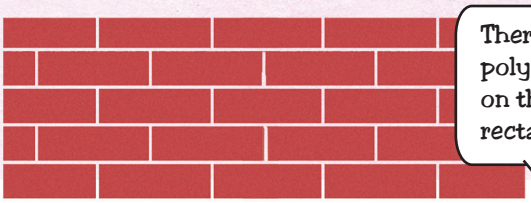


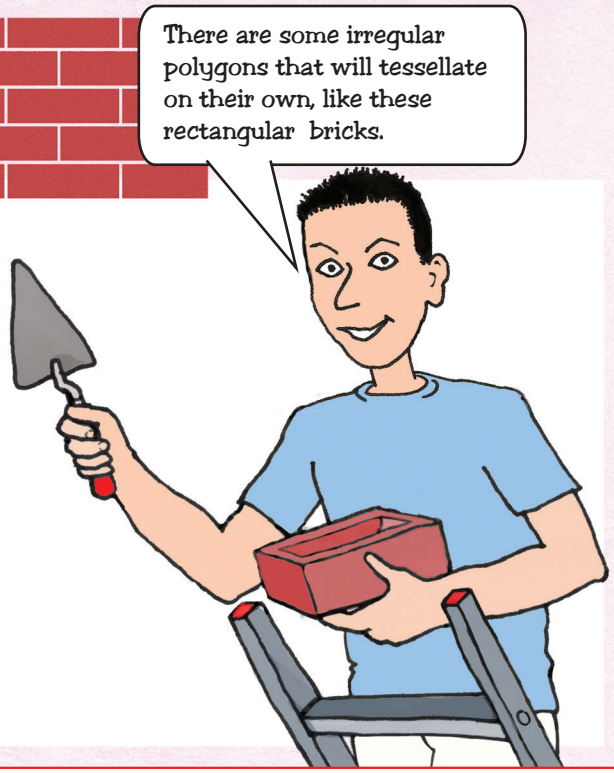




A regular polygon has equal length sides and equal angles (equilateral and equiangular).

## The three regular polygons that tessellate

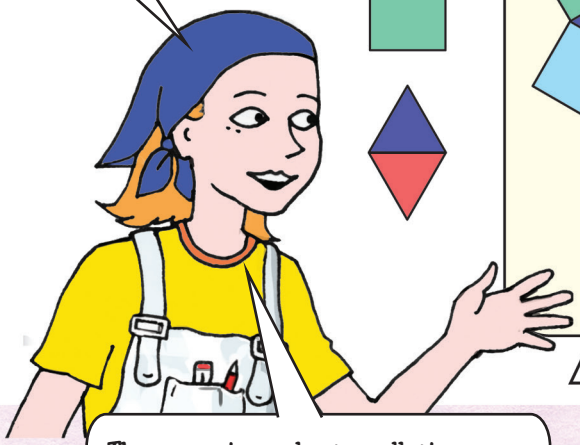
Find other irregular polygons on Mathomat that will tessellate on their own and draw them below:

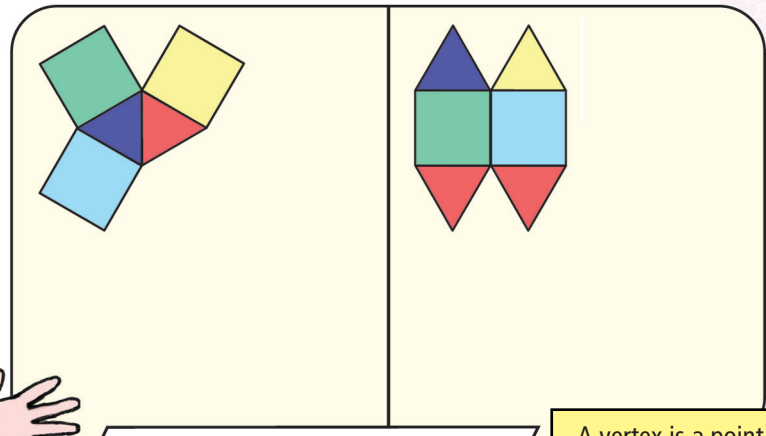





A polygon is a plane (flat) shape with 3 or more straight sides.
Apart from the triangle and quadrilateral polygons are usually named by the Greek word for their number of sides plus the ending 'gon', such as hexa-gon.

What if we put two regular polygons together?





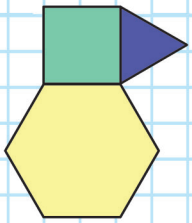
Continue these tessellations.

A vertex is a point where lines meet.

These semi-regular tessellations are also called HOMOGENEOUS tessellations. The pattern is the same on each vertex.

Try experimenting with a combination of regular polygons on your Mathomat.

Find these pages, full size, to print out in **MAC.**



The sum of the angles of any point is 360°

Try hexagons with triangles or an octagon and a square. There are only 8 possible semi-regular tessellations.