# Polygons on the Protractor

## The Pentagon
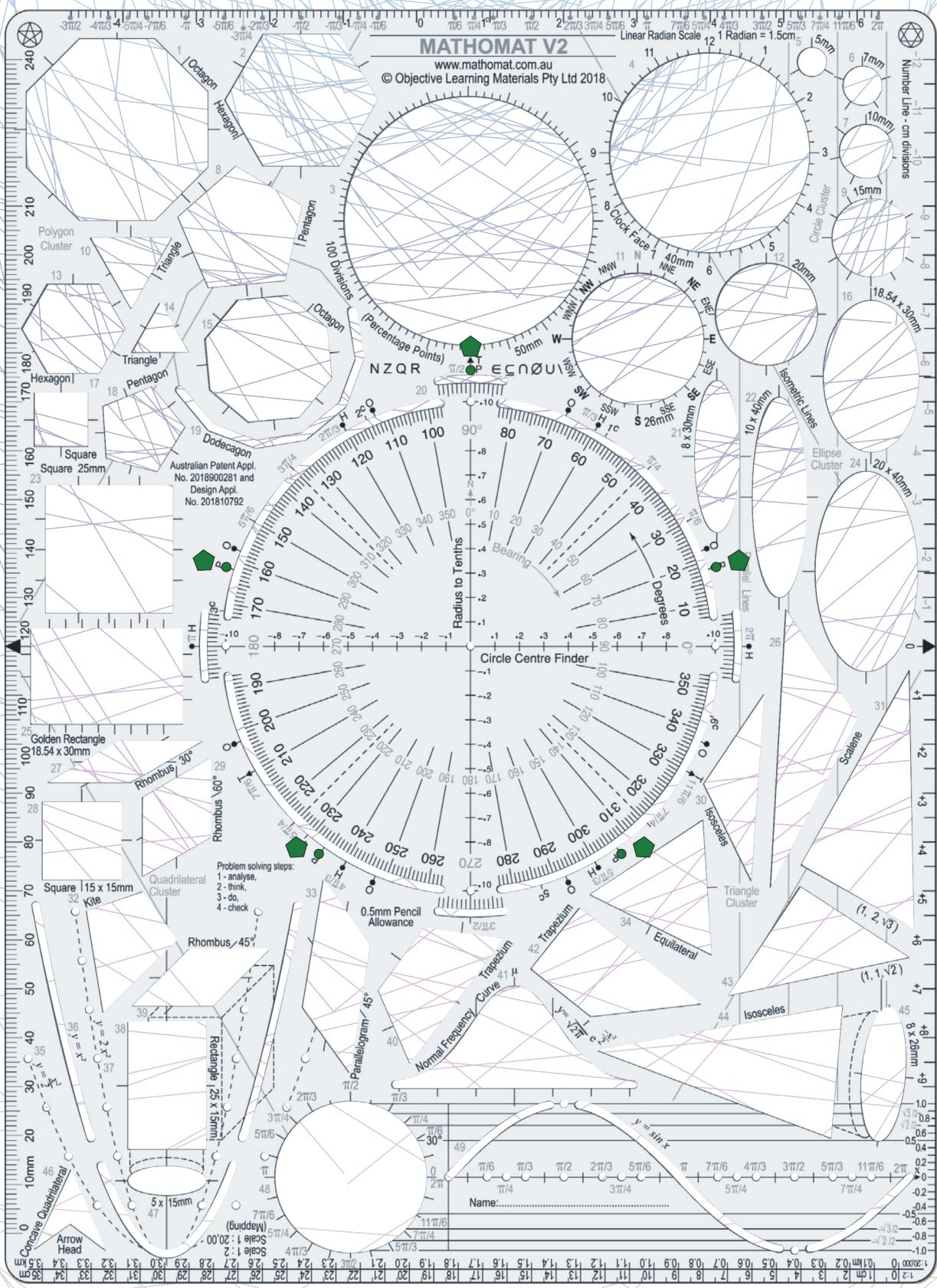
Polygons on the Protractor

Exploring Decomposing with the Large Pentagon.

Shape
20

Connect the points for a quick large regular pentagon.
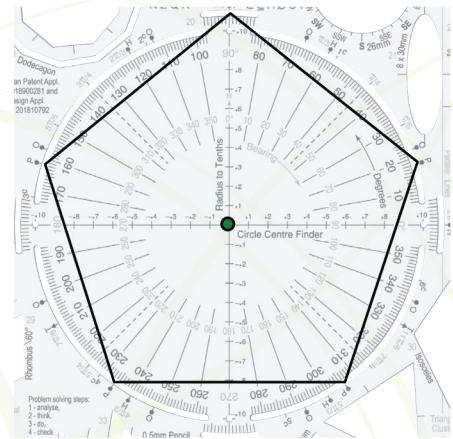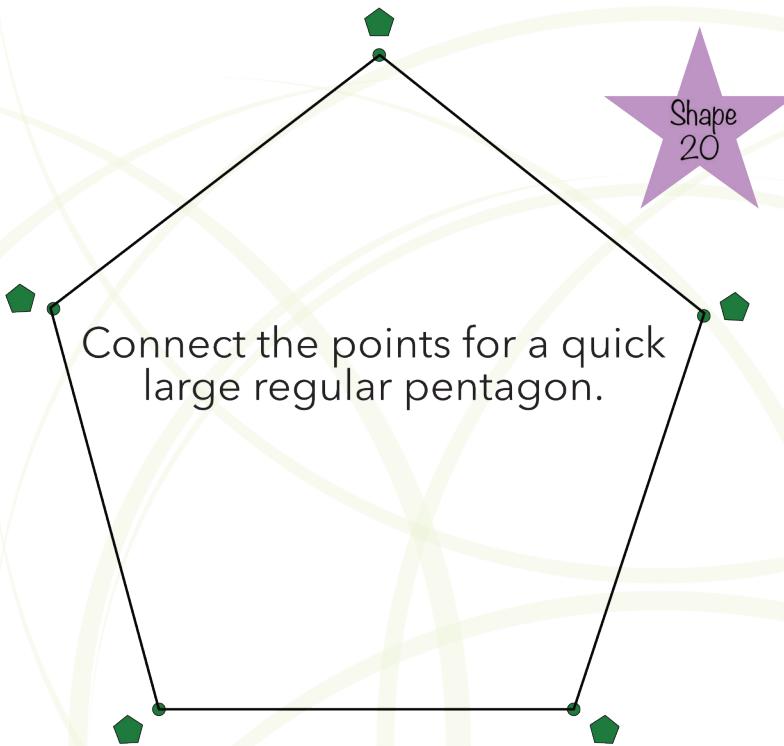
Mark the centre of the pentagon with the circle centre finder.
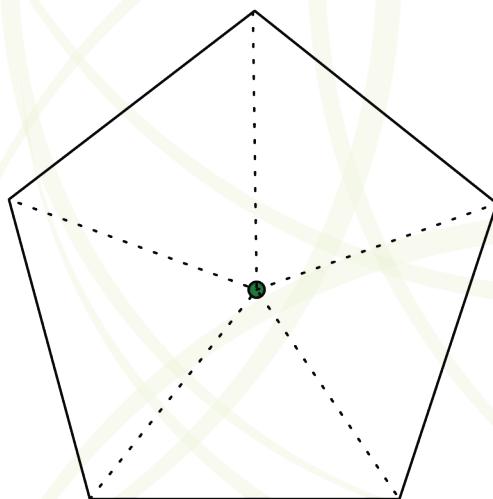
By cutting out these triangles we prove congruency for the triangles.
It may also help students understand how the polygon formulas work.
Finding the degrees for the inside angles of this pentagon is now easy.
The midpoint has five angles fitted, all of them with same magnitude, so 360° divided by 5 to get those, then apply equilateral triangle properties to get the rest of the angles.