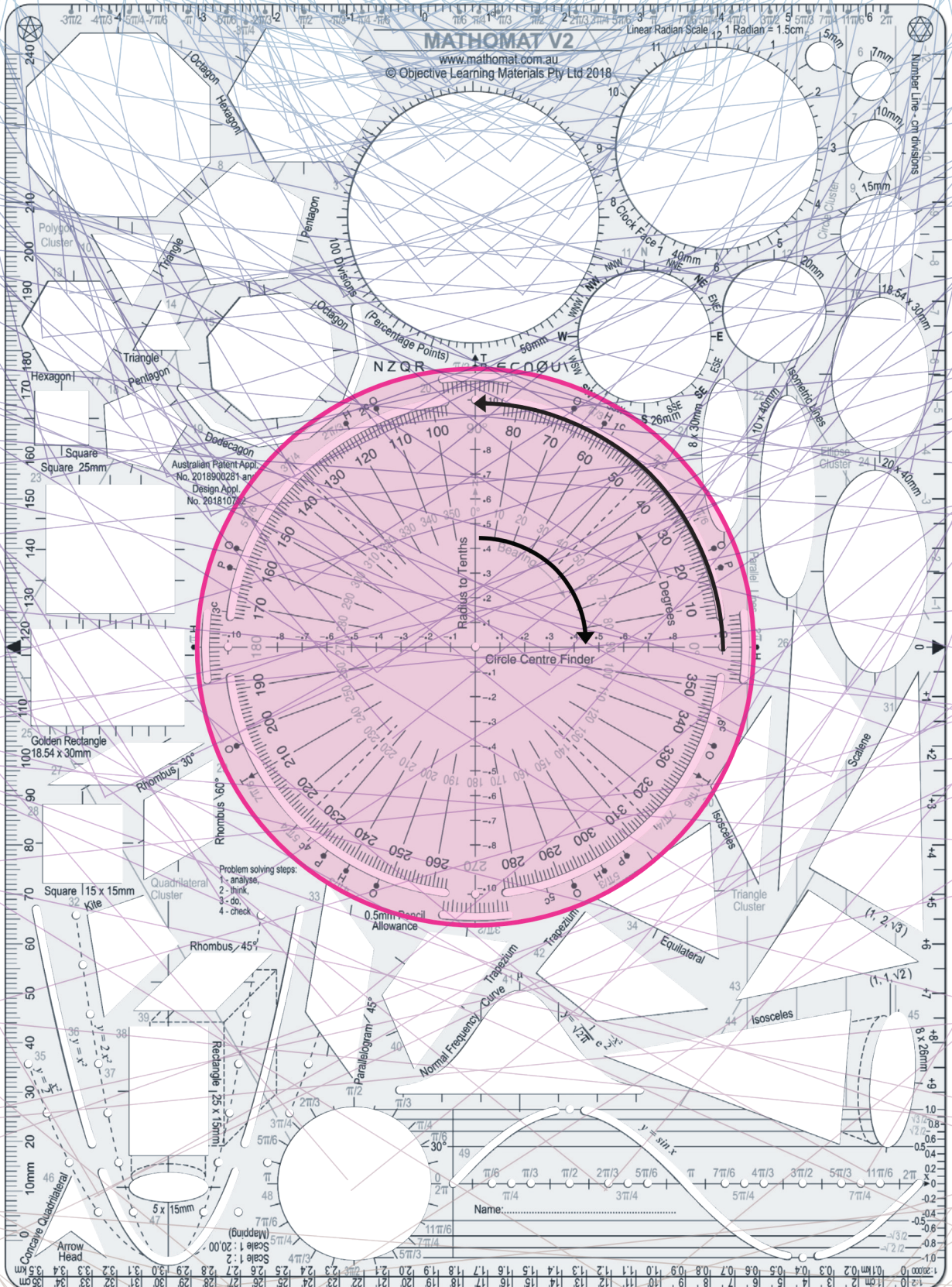


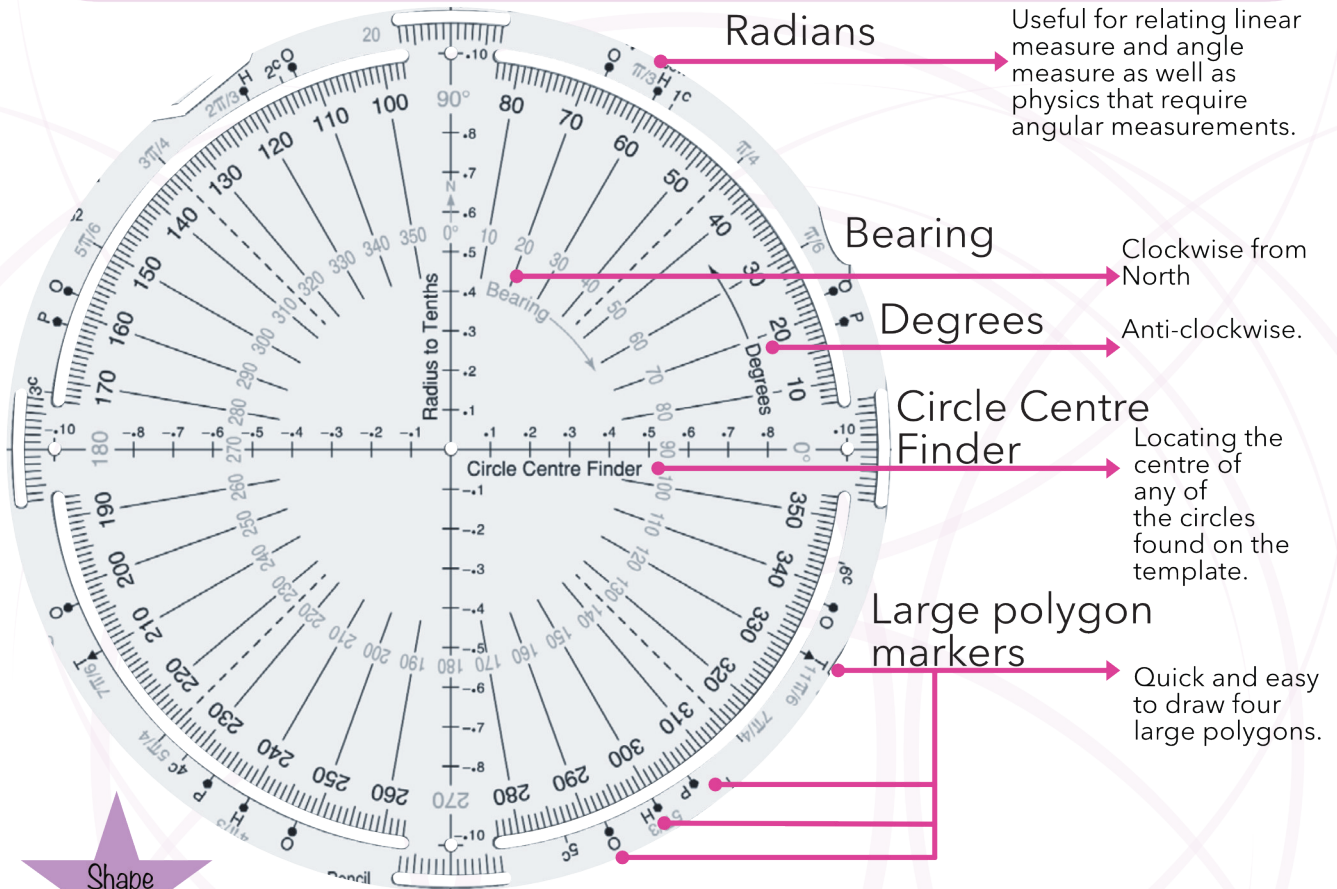
# Protractor

## The Protractor and Bearing Scales



# The Protractor and Circle Centre Finder

Using the features on the Protractor



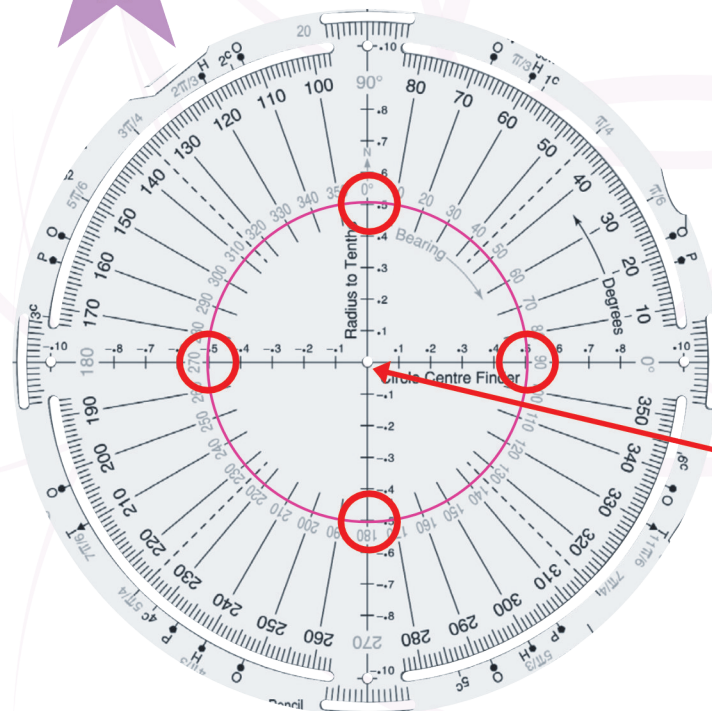
**Radians**  
Useful for relating linear measure and angle measure as well as physics that require angular measurements.

**Bearing**  
Clockwise from North

**Degrees**  
Anti-clockwise.

**Circle Centre Finder**  
Locating the centre of any of the circles found on the template.

**Large polygon markers**  
Quick and easy to draw four large polygons.



Using the Circle centre finder

- #1 Draw a circle
- #2 Position the template over the circle so that the numbers on the x and y axis line up on the circumference of the circle. The same number should be on the circumference.  
(There will be negative numbers but distance is not measured in negatives.)
- #3 Once the numbers are lined up on the circumference, mark the centre with a pen or pencil in the hole right in the middle of the protractor. This is also the origin of the Cartesian plane.  
Knowing the centre or midpoint of a circle enables us to work with circle theorems as well as use circles for pie-charts and fractions, to name but a few.

