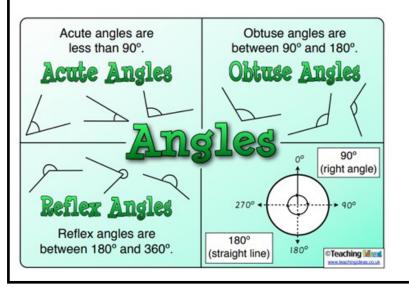
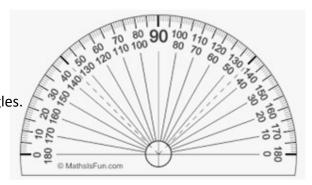
Maths Knowledge Organiser—Great Greeks Module—Summer 1

Section 1: Angles

- An angle is formed when two straight lines meet.
- The angle is the amount of turn around the point.
- We can classify angles as acute, obtuse, reflex or right angles.





Measuring angles

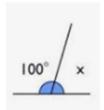
- Angles are measured with protractors.
- Angles are measured in degrees (°)
- When using a protractor to measure an angle, make sure you use the correct scale on the protractor.

Section 2: Calculating Missing Angles

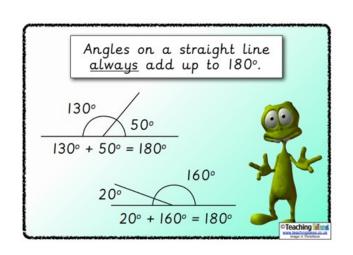
Angles on a straight line

The angles on a straight line add up to 180°

To calculate a missing angle along a straight line, subtract the given angle (or angles) from 180°



$$180^{\circ} - 100^{\circ} = 80^{\circ}$$



Angles in a full turn

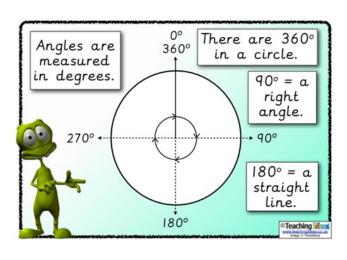
A full turn is 360°

Angles around a full turn will always add up to 360°

To calculate a missing angle around a point in the middle of a full turn, subtract the given angle (or angles) from 360°

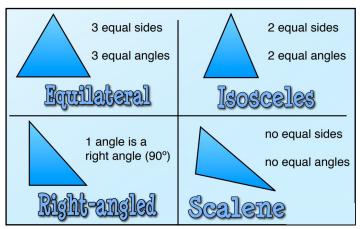


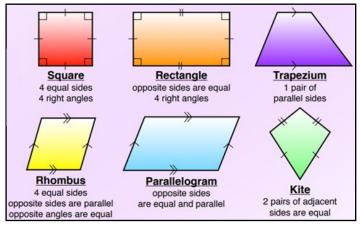
$$360^{\circ} - 240^{\circ} = 120^{\circ}$$



Section 3: Triangles and Quadrilaterals

- Triangles have three sides, three vertices (corners) and three angles.
- The angles inside a triangle add up to 180°.





- Quadrilaterals have four sides, four vertices and four angles.
- The angles inside a quadrilateral add up to 360°.

Section 4: Polygons

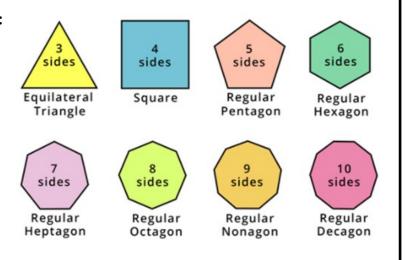
The word polygon comes from Greek words:

- polys meaning many
- gonos meaning angled

A polygon is a **2D shape** which has at least three angles.

Regular polygons have angles and side lengths which are **all the same**.

Irregular polygons have some angles and side lengths which are **not the same**.



Section 5: Co-ordinates

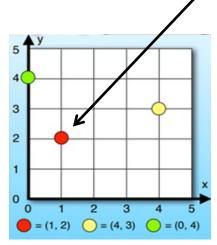
Co-ordinates help us find the position of something.

Co-ordinate grids have two axes:

- horizontal (x) axis
- vertical (y) axis

Points along a horizontal line have the same y co-ordinate.

Points along a vertical line have the same x co-ordinate.



It is 1 square across and 2 squares up.

We call this (1,2)

x co-ordinate (across) (up)

Remember:

Along the Corridor →

Then up the Stairs ↑