

Angles



Acute angles
Any angles
that measure
less than 90°



Obtuse angles Any angles that measure more than 90 ° and less than 180 °



Reflex angles Any angles that measure more than 180 ° acute angle

Vocabulary

right angle

obtuse angle

reflex angle

quadrilateral

regular polygon

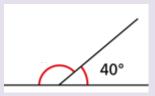
interior angles

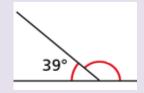
radius

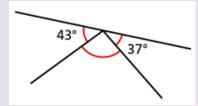
diameter

circumference

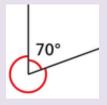
Angles on a straight line always total 180 °

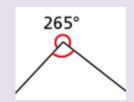


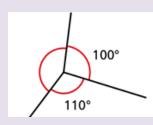


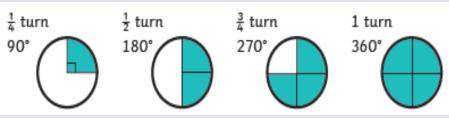


Angles around a point always total 360 °









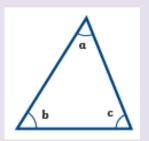


Opposite angles that meet at a vertex are equal

Multiples of 90° can be used as descriptions of turns

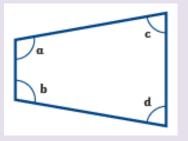
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Angles



Angles in any triangle total 180°

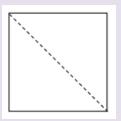
$$a + b + c = 180$$
°



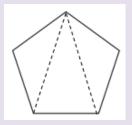
Angles in any quadrilateral total 360°

$$a + b + c + d = 360$$
°

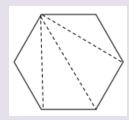
Angles in regular polygons The sum of interior angles in a triangle is 180°



A square can be split into 2 triangles.
The sum of interior angles is
2 x 180° = 360°

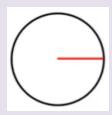


A pentagon can be split into 3 triangles. The sum of interior angles is 3 x 180° = 540°

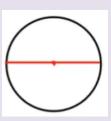


A hexagon can be split into 4 triangles.
The sum of interior angles is
4 x 180° = 720°

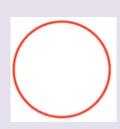
Parts of a Circle



radius



diameter



circumference

- The perimeter of a circle is called the **circumference**.
- The distance across the circle, passing through the centre is called the **diameter**
- The distance from the centre of the circle to the circumference is called the radius.
- 2 x radius = diameter d = r x 2