Properties of Shapes

Knowledge Organiser

Key Vocabulary	Angle Types		
angle right angle acute obtuse reflex protractor horizontal	Acute Angles Any angle that measures less than 90° is called an acute angle.	Obtuse Angles Any angle that measures greater than 90° and less than 180° is called an obtuse angle.	Reflex Angles Any angle that measures greater than 180° is called a reflex angle.
vertical	Calculating Angles		Angles in a Triangle
parallel perpendicular polygon regular irregular two-dimensional three-dimensional flat face curved surface edge curved edge vertex	117° 63° Angles on a straight line always total 180°.	74° 74° 42° 20° Angles around a point always total 360°. 123° 123°	$a + b + c = 180^{\circ}$ Angles in a Quadrilateral
vertices	Opposite angles that share a vertex are equal.		c
apex radius diameter circumference	$ \frac{\frac{1}{4} \text{ turn}}{90^{\circ}} \underbrace{12^{\circ} \text{ turn}}_{180^{\circ}} \underbrace{180^{\circ}}_{\text{Multiples of 90^{\circ} can be use}} $	$ \frac{\frac{3}{4} \text{ turn}}{270^{\circ}} \qquad 1 \text{ turn}}{360^{\circ}} $ d as descriptions of a turn.	$a + b + c + d = 360^{\circ}$

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6 vertices

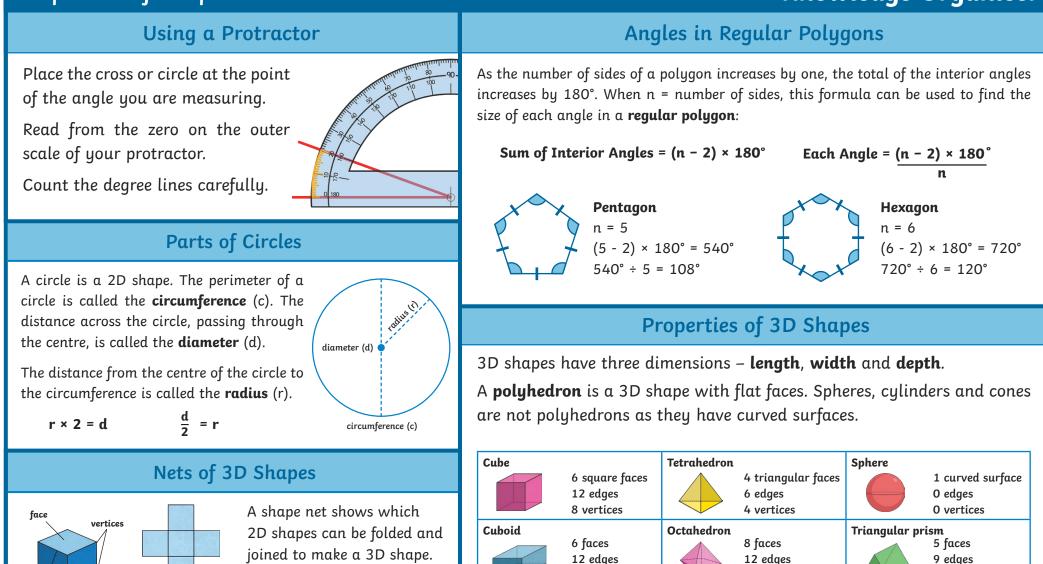
0 vertices

2 circular faces

1 curved surface

2 curved edges

Cylinder



8 vertices

5 faces

8 edges

5 vertices

Cone

Square-based pyramid

6 vertices

1 apex

1 circular face

1 curved edge

1 curved surface

2D shapes can be folded and joined to make a 3D shape. When you are drawing a net, or solving a problem involving a shape net, think carefully about where the edges of the faces meet.