

Knowledge Organiser - Maths

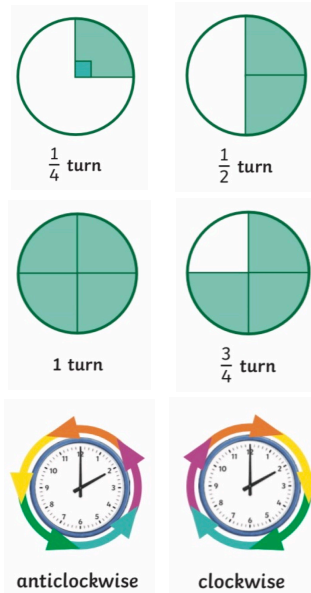
Key Facts - Angles

An angle is created when two straight lines meet at a point or intersect.

There are six types of angles;

Type of Angle	Description	Example
Acute Angle	An angle that is less than 90°	
Right Angle	An angle that is exactly 90°	
Obtuse Angle	An angle that is greater than 90° and less than 180°	
Straight Angle	An angle that is exactly 180°	
Reflex Angle	An angle that is greater than 180° and less than 360°	
Full Angle	An angle that is exactly 360°	

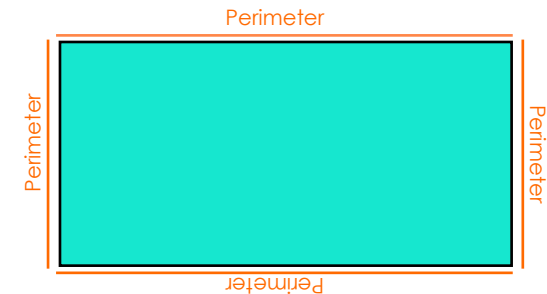
Angles can also be used as a description of a turn.



Key Facts - Area and Perimeter

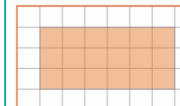
Perimeter is the total distance around the outside of a 2D shape.

Area is the amount of space inside a 2D shape.



Area of Rectangles

length \times width = area of a rectangle



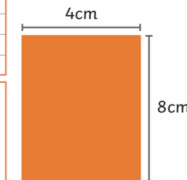
Counting squares:

area = 18cm²

Use formula:

6cm \times 3cm

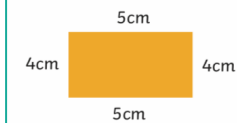
area = 18cm²



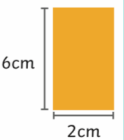
8cm \times 4cm area = 32cm²

Perimeter of Rectangles

perimeter = length + width + length + width or (length + width) \times 2



5cm + 4cm + 5cm + 4cm
area = 18cm²



(6 + 2) \times 2
area = 16cm²

Key Facts - Lines

Perpendicular



Lines that meet at a right angle (90°)

Parallel



Lines that will never meet and are always the same distance apart.

Vertical



Straight line up and down

Horizontal



Straight line left and right

Key Vocabulary

angle	an angle is created when two straight lines meet at a point or intersect
perimeter	the total distance around the outside of a 2D shape
area	the total amount of space inside a 2D shape
vertical	straight line up and down
horizontal	straight line left and right