

# Year 4 Properties of Shape

## Key Vocabulary

2-D shapes

sides

corners

lines of symmetry

properties

3-D shapes

edges

vertices

vertex

faces

right angle

polygon

prism

isosceles

equilateral

scalene

quadrilaterals

kite

rhombus

parallelogram

trapezium

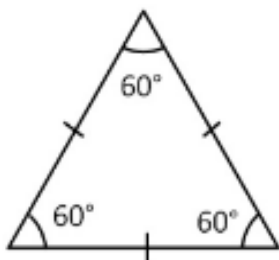
geometric

## Triangles

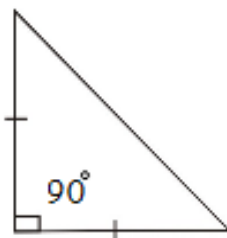
Triangles have **3 sides** and **3 vertices** and their angles always total **180°**.



**Isosceles triangles** have two sides of equal length and two angles of equal size.



**Equilateral triangles** have three sides of equal length and all three angles are 60°.



**Right angle triangles** have one angle of 90°. They can be scalene or isosceles.

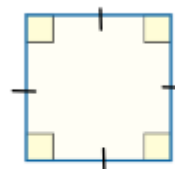


**Scalene triangles** have no equal sides or angles.

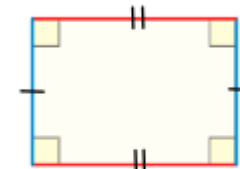


## Quadrilaterals

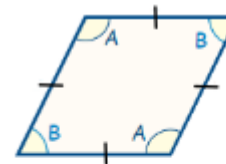
A quadrilateral is a shape with 4 sides.



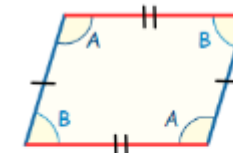
A **square** has four equal sides and four right angles (90°). It also has two pairs of parallel lines.



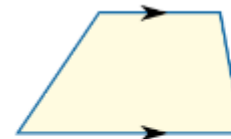
A **rectangle** has two pairs of equal sides and four right angles. It also has two pairs of parallel lines.



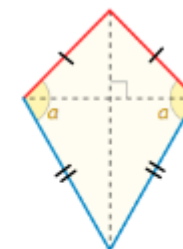
A **rhombus** has four sides of equal length. It also has two pairs of equal opposite sides and angles.



A **parallelogram** has two pairs of parallel lines, two pairs of opposite angles and two pairs of equal sides.



A **trapezium** has one pair of parallel lines.



A **kite** has two pairs of equal sides and one pair of equal opposite angles.

# Year 4 Properties of Shape

Key Vocabulary
orientations
angles
acute angle
obtuse angle
right Angle
turn
quarter turn
half turn
three quarter turn
horizontal
vertical
perpendicular
parallel lines

**Right Angle**

90°

A 90 degree angle where two perpendicular lines intersect.

## Angles

**Acute Angle**

30° 18°

An angle measuring more than 0 degrees, but less than 90 degrees.

**Obtuse Angle**

130°

An angle measuring more than 90 degrees, but less than 180 degrees.

**Types of Lines**

horizontal vertical parallel perpendicular

Two lines that never meet and stay the same distance apart.

Two lines that meet at a right angle.

**Symmetry**

Squares have 4 lines of symmetry.

Rectangles have 2 lines of symmetry.

Isosceles triangles have 1 line of symmetry.

Equilateral triangles have 3 lines of symmetry.