

angle right angle acute obtuse horizontal vertical diagonal parallel perpendicular two-dimensional polygon line of symmetry reflection mirror line isosceles equilateral scalene quadrilateral rhombus parallelogram trapezium

Triangles

## Year Four Properties of Shape

Quadrilaterals



Triangles have 3 sides and 3 vertices. The total of the angles in a triangle is 180°.

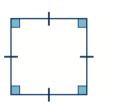
An equilateral triangle is a regular polygon. It has sides of equal length and each angle is 60°.

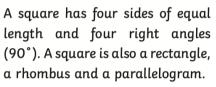
An isosceles triangle has two sides of equal length and two angles of equal size.

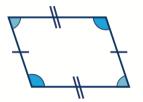
A right-angled triangle always has one 90° angle.

It can be isosceles or scalene.

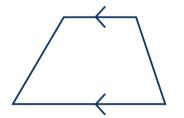
A scalene triangle has no equal sides or angles. A quadrilateral is a polygon with four sides.



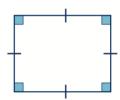




A parallelogram has two pairs of parallel, equal sides and opposite equal angles.



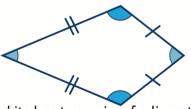
A trapezium only has one pair of opposite parallel sides.



A rectangle has two pairs of parallel, equal sides and four right angles. A rectangle is also a parallelogram.



A rhombus has four sides of equal length and opposite equal angles. A rhombus is also a parallelogram.



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



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

## **Right angle**

The intersection of perpendicular lines creates a right angle.



## Acute angle

Any angle measuring more than 0 degrees and less than 90 degrees is acute.



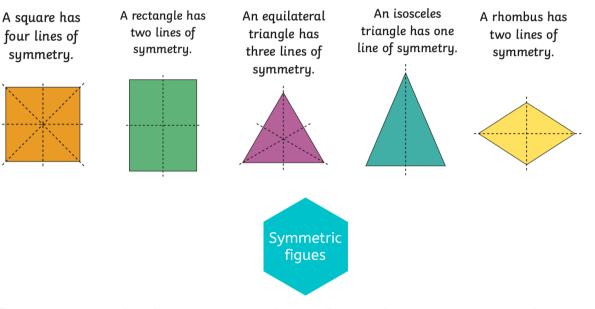
## Obtuse angle

Any angle measuring more than 90 degrees but less than 180 degrees is obtuse.

120°



Lines of symmetry may be horizontal, vertical or diagonal. Some shapes will have no lines of symmetry and some 2D shapes will have multiple lines of symmetry.



Patterns and shapes can be reflected in a mirror line. Mirror lines can be vertical, horizintal or diagonal.

