







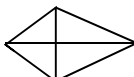


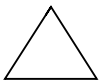
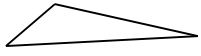


Shape and Space

| | |
|---|---|
| perimeter | The total distance around the outside of a shape or object. Normally measured in centimetres (cm). |
|  | If the sides of this triangle were 4cm long the perimeter of the triangle would be $(3 \times 4\text{cm}) = 12\text{cm}$. |
| area | The total size of the surface or inside of a flat (2D) shape. Normally measured in square centimetres (cm ²). |
|  | If the sides of this rectangle were 6cm long and 3cm wide the area of the rectangle would be length x width $(6\text{cm} \times 3\text{cm}) = 18\text{cm}^2$. |
| volume | The total size of the space inside a three dimensional (3D) shape or object. Normally measured in cubic centimetres (cm ³). |
|  | If the sides of this cube were 3cm long the volume of the cube would be length x width x depth $(3\text{cm} \times 3\text{cm} \times 3\text{cm}) = 27\text{cm}^3$. |

| | | | |
|---|--|--|--|
| Quadrilaterals: 4 sides, sum of all angles = 360 degrees | | | |
| square | 4 equal sides opposite sides parallel 4 right angles | rhombus | 4 equal sides opposite sides parallel opposite angles equal 'a square on a slant' |
|  | |  | |
| rectangle | 4 sides opposite sides equal opposite sides parallel 4 right angles | parallelogram | opposite sides equal opposite sides parallel opposite angles equal 'a rectangle on a slant' |
|  | |  | |
| trapezium | 4 sides 2 sides parallel 2 sides not parallel | kite | 4 sides 2 pairs of adjacent sides are equal |
|  | |  | |

| | | | |
|---|--|--|--|
| Triangles: 3 sides, sum of all angles = 180 degrees | | | |
| right-angled | 3 sides 1 angle = 90 degrees 2 acute angles = 90 degrees | isosceles | 3 sides 2 equal sides 2 equal angles |
|  | |  | |
| equilateral | 3 sides all sides equal all angles are 60 degrees | scalene | 3 sides all sides unequal all angles unequal |
|  | |  | |

| | |
|--------------------|-----------------------------------|
| Angle | |
| right angle | 90° (like the corner of a square) |
| acute | less than 90° |
| obtuse | more than 90° but less than 180° |
| reflex | greater than 180° |