














# Shape and Space

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

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

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

<b>Angles</b>	
<b>right angle</b>	90° (like the corner of a square)
<b>acute</b>	less than 90°
<b>obtuse</b>	more than 90° but less than 180°
<b>reflex</b>	greater than 180°