














Shape and Space

<p>perimeter</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 $(3 \times 4\text{cm}) = 12\text{cm}$.</p>
<p>area</p> 	<p>The total size of the surface or inside of a flat (2D) shape. Normally measured in square centimetres (cm²).</p> <p>If the sides of this rectangle were 6cm long and 3cm wide the area of the rectangle would be length x width $(6\text{cm} \times 3\text{cm}) = 18\text{cm}^2$.</p>
<p>volume</p> 	<p>The total size of the space inside a three dimensional (3D) shape or object. Normally measured in cubic centimetres (cm³).</p> <p>If the sides of this cube were 3cm long the volume of the cube would be length x width x depth $(3\text{cm} \times 3\text{cm} \times 3\text{cm}) = 27\text{cm}^3$.</p>

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

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

Angles	
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°