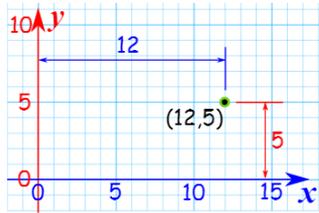
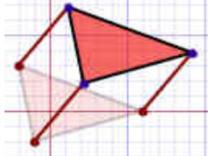


GODALMING JUNIOR SCHOOL



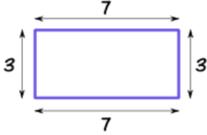
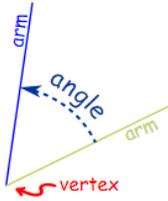
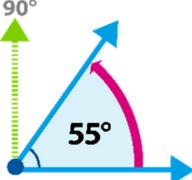
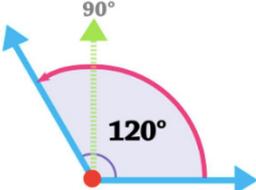
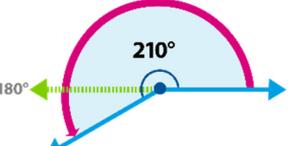
**GLOSSARY BOOKLET**

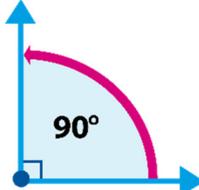
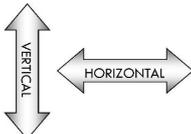
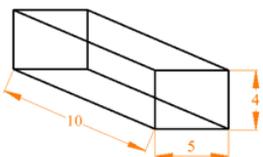
# Number

|              | Definition  | Example  |
|--------------|---|--|
| =            | A symbol that means 'the same as'   | $7 \times 8 = 56$<br>$6 \times 8 = 12 \times 4$  |
| Fraction     | Part of a whole.<br><ul style="list-style-type: none"> <li>the top number (the numerator) says how many parts we have.</li> <li>the bottom number (the denominator) says how many parts the whole is divided into</li> </ul> <p>Fractions can also mean division. We divide by the denominator and multiply by the numerator.</p> |  |
| Percentage   | Percent means parts per 100<br>The symbol is %  | Example: 25% means 25 per 100, which is the same as 0.25 and $\frac{1}{4}$ .   |
| Ratio        | It is when we compare one part with another part.   | if there is 1 boy and 3 girls you could write the ratio as:<br>1:3 (for every one boy there are 3 girls)   |
| Multiple     | The result of multiplying a number.   | Examples:<br>• 12 is a multiple of 3, as $3 \times 4 = 12$   |
| Factor       | Factors are the numbers which can be divided equally into a number.   | The factors of 6 are:<br>1, 2, 3 and 6 because each of these numbers can be divided into 6 equally.  |
| Round        | Rounding means making a number simpler but keeping its value close to what it was. The result is less accurate, but easier to use.  | Example: 73 rounded to the nearest ten is 70, because 73 is closer to 70 than to 80. But 76 goes up to 80.<br><br>This is the common method: <ul style="list-style-type: none"> <li>Decide which is the last digit to keep</li> <li>Increase it by 1 if the next digit is 5 or more (this is called rounding up)</li> <li>Leave it the same if the next digit is less than 5 (this is called rounding down)</li> </ul> |
| Co-ordinates | Coordinates are a set of values that show an exact position.<br><br>On graphs it is common to have a pair of numbers to show where a point is: the first number shows the distance along and the second number shows the distance up or down.   | Example: the point (12,5) is 12 units along, and 5 units up.<br><br>   |
| Translate    | To "slide": move a shape without rotating or flipping it. The shape still looks exactly the same, just in a different place.  |    |

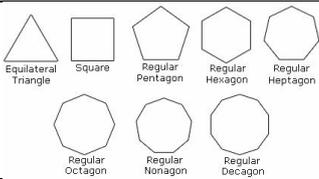
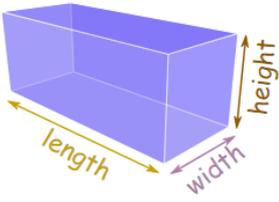
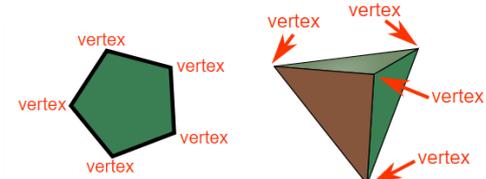
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|----------------|--|---|-------|-----|--------|------|------|-------|-----|----|---|----|----|----|----|--------|-----|----|---|-----|----|-----|----|------|-----|-----|---|----|----|------|----|-----|-----|----|---|---|----|-------|----|------|-----|---|---|----|----|-----|----|----|-----|----|---|-----|----|----|----|---|-----|-----|---|------|----|-----|----|----|-----|------|---|----|----|------|----|-----|-----|----|----|---|----|-------|----|------|------|---|----|----|----|------|----|----|------|-----|----|-----|----|-----|-----|---|------|------|----|------|----|------|-----|----|------|-----|--|--|
| Roman Numerals | <p>How ancient Romans used to write numbers.</p> <p>I means 1<br/>V means 5<br/>X means 10<br/>L means 50<br/>C means 100<br/>D means 500<br/>M means 1000</p> | <b>Roman Numeral Table</b>  |       |     |        |      |      |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
|                |  | <table border="1"> <tr><td>1</td><td>I</td><td>14</td><td>XIV</td><td>27</td><td>XXVII</td><td>150</td><td>CL</td></tr> <tr><td>2</td><td>II</td><td>15</td><td>XV</td><td>28</td><td>XXVIII</td><td>200</td><td>CC</td></tr> <tr><td>3</td><td>III</td><td>16</td><td>XVI</td><td>29</td><td>XXIX</td><td>300</td><td>CCC</td></tr> <tr><td>4</td><td>IV</td><td>17</td><td>XVII</td><td>30</td><td>XXX</td><td>400</td><td>CD</td></tr> <tr><td>5</td><td>V</td><td>18</td><td>XVIII</td><td>31</td><td>XXXI</td><td>500</td><td>D</td></tr> <tr><td>6</td><td>VI</td><td>19</td><td>XIX</td><td>40</td><td>XL</td><td>600</td><td>DC</td></tr> <tr><td>7</td><td>VII</td><td>20</td><td>XX</td><td>50</td><td>L</td><td>700</td><td>DCC</td></tr> <tr><td>8</td><td>VIII</td><td>21</td><td>XXI</td><td>60</td><td>LX</td><td>800</td><td>DCCC</td></tr> <tr><td>9</td><td>IX</td><td>22</td><td>XXII</td><td>70</td><td>LXX</td><td>900</td><td>CM</td></tr> <tr><td>10</td><td>X</td><td>23</td><td>XXIII</td><td>80</td><td>LXXX</td><td>1000</td><td>M</td></tr> <tr><td>11</td><td>XI</td><td>24</td><td>XXIV</td><td>90</td><td>XC</td><td>1600</td><td>MDC</td></tr> <tr><td>12</td><td>XII</td><td>25</td><td>XXV</td><td>100</td><td>C</td><td>1700</td><td>MDCC</td></tr> <tr><td>13</td><td>XIII</td><td>26</td><td>XXVI</td><td>101</td><td>CI</td><td>1900</td><td>MCM</td></tr> </table> | 1     | I   | 14     | XIV  | 27   | XXVII | 150 | CL | 2 | II | 15 | XV | 28 | XXVIII | 200 | CC | 3 | III | 16 | XVI | 29 | XXIX | 300 | CCC | 4 | IV | 17 | XVII | 30 | XXX | 400 | CD | 5 | V | 18 | XVIII | 31 | XXXI | 500 | D | 6 | VI | 19 | XIX | 40 | XL | 600 | DC | 7 | VII | 20 | XX | 50 | L | 700 | DCC | 8 | VIII | 21 | XXI | 60 | LX | 800 | DCCC | 9 | IX | 22 | XXII | 70 | LXX | 900 | CM | 10 | X | 23 | XXIII | 80 | LXXX | 1000 | M | 11 | XI | 24 | XXIV | 90 | XC | 1600 | MDC | 12 | XII | 25 | XXV | 100 | C | 1700 | MDCC | 13 | XIII | 26 | XXVI | 101 | CI | 1900 | MCM |  |  |
| 1              | I  | 14  | XIV   | 27  | XXVII  | 150  | CL   |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 2              | II   | 15  | XV    | 28  | XXVIII | 200  | CC   |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 3              | III  | 16  | XVI   | 29  | XXIX   | 300  | CCC  |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 4              | IV   | 17  | XVII  | 30  | XXX    | 400  | CD   |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 5              | V  | 18  | XVIII | 31  | XXXI   | 500  | D    |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 6              | VI   | 19  | XIX   | 40  | XL     | 600  | DC   |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 7              | VII  | 20  | XX    | 50  | L      | 700  | DCC  |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 8              | VIII   | 21  | XXI   | 60  | LX     | 800  | DCCC |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 9              | IX   | 22  | XXII  | 70  | LXX    | 900  | CM   |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 10             | X  | 23  | XXIII | 80  | LXXX   | 1000 | M    |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 11             | XI   | 24  | XXIV  | 90  | XC     | 1600 | MDC  |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 12             | XII  | 25  | XXV   | 100 | C      | 1700 | MDCC |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
| 13             | XIII   | 26  | XXVI  | 101 | CI     | 1900 | MCM  |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |
|                |  | Example: 2018 MMXVIII   |       |     |        |      |      |       |     |    |   |    |    |    |    |        |     |    |   |     |    |     |    |      |     |     |   |    |    |      |    |     |     |    |   |   |    |       |    |      |     |   |   |    |    |     |    |    |     |    |   |     |    |    |    |   |     |     |   |      |    |     |    |    |     |      |   |    |    |      |    |     |     |    |    |   |    |       |    |      |      |   |    |    |    |      |    |    |      |     |    |     |    |     |     |   |      |      |    |      |    |      |     |    |      |     |  |  |

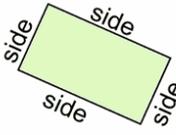
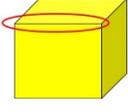
## Measures

|              | Definition  | Example  |
|--------------|---|--|
| Area         | The size of a surface.<br>The amount of space inside the boundary of a flat (2-dimensional) object such as a triangle or circle.      | Formula for finding the area of a:<br>Rectangle: length x width<br>Parallelogram: length x height<br>Triangle: length x height ÷ 2                               |
| Perimeter    | The distance around a two-dimensional shape.  |  <p>Example: the perimeter of this rectangle is <math>3+7+3+7 = 20</math></p> |
| Angle        | The amount of turn between two straight lines that have a common end point (the vertex).  |   |
| Degrees      | A measure for angles. There are 360° in a full rotation and 180° in half a term   | The symbol for degrees is °<br>Example: 90 degrees (90°) is a right angle.   |
| Acute        | An angle less than 90° (90° is called a Right Angle)  |   |
| Obtuse       | An obtuse angle is one which is more than 90° but less than 180°<br>In other words, it is between a right angle and a straight angle. |    |
| Reflex angle | A Reflex Angle is one which is more than 180° but less than 360°  |    |

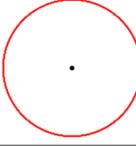
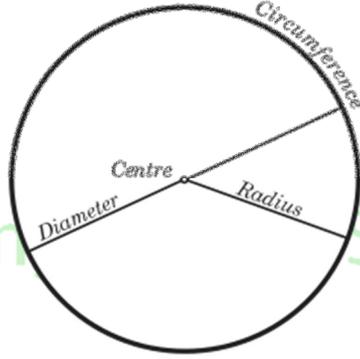
|              |   |   |
|--------------|---|---|
| Right angle  | An angle which is equal to $90^\circ$ , one quarter of a full revolution.   |    |
| Vertical     | In an up-down direction or position. Upright.   |    |
| Horizontal   | Going side-to-side, like the horizon. Parallel to the horizon.  |   |
| Volume       | The amount of 3-dimensional space an object occupies. Capacity.   | <br>For this example the volume is $4 \times 5 \times 10 = 200 \text{ units}^3$           |
| Mean Average | The mean is the average of the numbers: a calculated "central" value of a set of numbers. To calculate: Just add up all the numbers, then divide by how many numbers there are. | Example: what is the mean of 2, 7 and 9?<br>Add the numbers: $2 + 7 + 9 = 18$<br>Divide by how many numbers (i.e. we added 3 numbers): $18 \div 3 = 6$<br>So the Mean is 6. |

## 2D Shape

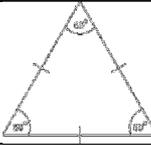
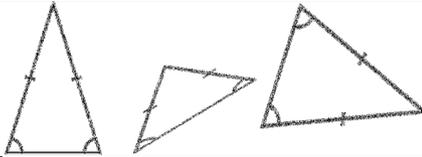
|                                | Definition   | Example  |
|--------------------------------|--|--|
| 2D Shape                       | A shape with only two dimensions (such as width and height) and no thickness. Also known as "2D".                        | Examples: Squares, Circles, Triangles, etc   |
| Polygon                        | Any 2D shape made up of <b>straight</b> lines.   |  |
| Regular and irregular          | A polygon is regular when all angles are equal length <b>AND</b> all sides are equal (otherwise it is "irregular").      |    |
| 3D Shape                       | An object with three dimensions (such as height, width and depth) like any object in the real world. Also known as "3D". |    |
| Vertices (on 2D and 3D shapes) | A point where two or more line segments meet. A corner. (The plural of vertex is "vertices".)                            | Examples: <ul style="list-style-type: none"> <li>any corner of a pentagon (a plane shape)</li> <li>any corner of a tetrahedron (a solid)</li> </ul>  |

|       |  |   |
|-------|--|---|
| Sides | One of the lines that make a flat (2-dimensional) shape.   |  |
| Faces | Any of the individual surfaces of a solid object.  |  |
| Edges | An edge is a line segment that joins two vertices (on the boundary of where faces meet) on a 3D shape. |  |

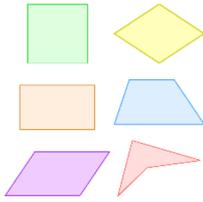
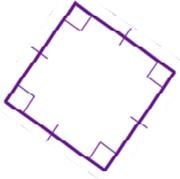
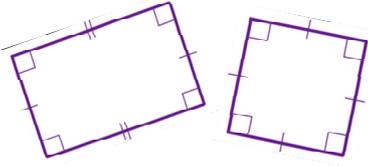
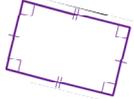
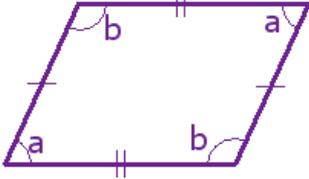
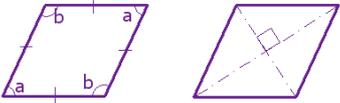
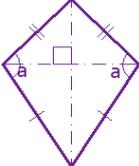
## Circles

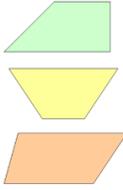
|               | Definition  | Example   |
|---------------|---|---|
| Circle        | A 2-dimensional shape made by drawing a curve that is always the same distance from a centre.         |    |
| Diameter      | A straight line going through the centre of a circle connecting two points on the circumference.      |  |
| Radius        | The distance from the centre to the circumference of a circle<br>It is half of the circle's diameter. |   |
| Circumference | The distance around the edge of a circle. It is the name given for the perimeter of a circle.         |   |

## Triangles

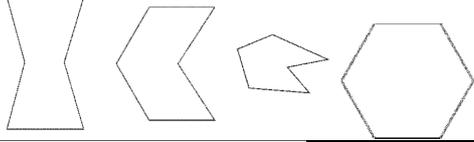
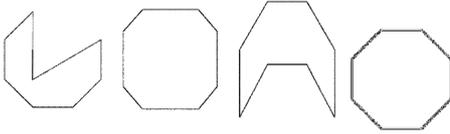
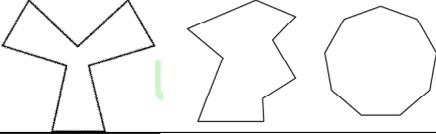
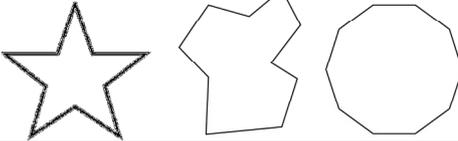
|             | Definition  | Example  |
|-------------|---|--|
| Triangle    | A 3-sided polygon (a flat shape with straight sides).   |  |
| Equilateral | A triangle with all three sides of equal length.<br>All the angles are $60^\circ$                       |   |
| Isosceles   | A triangle with two equal sides.<br>The angles opposite the equal sides are also equal                  |  |
| Scalene     | A triangle with all sides of different lengths.<br>No sides are of equal length and no angles are equal |  |

# Quadrilaterals

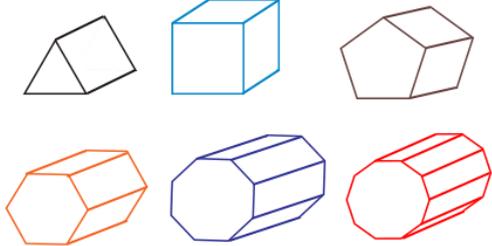
|                | Definition  | Example  |
|----------------|---|--|
| Quadrilaterals | Any 4-sided shape.<br>There are 6 types of quadrilaterals that have their own names:<br>Square, rhombus, rectangle (oblong), trapezium, parallelogram and kite.   |    |
| Square         | A 4-sided flat shape with straight sides where: <ul style="list-style-type: none"> <li>• all sides have equal length, and</li> <li>• every interior angle is a right angle (<math>90^\circ</math>)</li> </ul> It is a regular quadrilateral.  |   |
| Rectangle      | A 4-sided flat shape with straight sides where all interior angles are right angles ( $90^\circ$ ). AND opposite sides are parallel and of equal length.<br>A square is a special type of rectangle.  |    |
| Oblong         | A rectangle that is not a square.   |    |
| Parallelogram  | A 4-sided flat shape with straight sides where opposite sides are parallel.<br>Also: <ul style="list-style-type: none"> <li>• opposite sides are equal in length, and</li> <li>• opposite angles are equal (angles "a" are the same, and angles "b" are the same)</li> </ul> <b>NOTE: Squares, Rectangles and Rhombuses are all Parallelograms!</b> |    |
| Rhombus        | A 4-sided flat shape with straight sides where all sides have equal length.<br>Also opposite sides are parallel and opposite angles are equal.<br>It is a type of parallelogram (a parallelogram with equal length sides).  |    |
| Kite           | A 4-sided flat shape with straight sides that: <ul style="list-style-type: none"> <li>• has two pairs of equal length sides.</li> <li>• The equal length sides are NOT opposite but next to each other.</li> </ul> Also, the angles are equal where the different pairs meet.   |  <p>The dashed lines are diagonals, which meet at a right angle. And one of the diagonals bisects (cuts equally in half) the other.</p> |

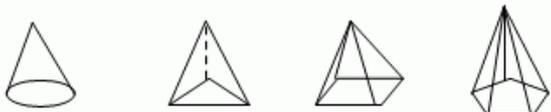
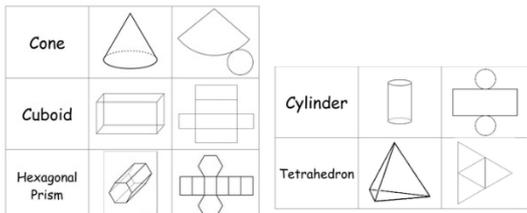
|           |   |   |
|-----------|---|---|
| Trapezium | A 4-sided flat shape with straight sides and NO parallel sides. Sometimes called a trapezoid. |  |
|-----------|---|---|

## Other 2D Shapes

|          | Definition  | Example  |
|----------|---|--|
| Pentagon | A 5-sided polygon.  |    |
| Hexagon  | A 6-sided polygon.  |    |
| Heptagon | A 7-sided polygon.<br>A 20p and 50p coin are regular heptagons. |    |
| Octagon  | An 8-sided polygon.   |   |
| Nonagon  | An 9-sided polygon.   |  |
| Decagon  | An 10-sided polygon.  |  |

## 3D Shapes

|        | Definition   | Example  |
|--------|--|--|
| Cube   | A box-shaped solid object that has six identical square faces.<br>A dice is a cube.  |  |
| Cuboid | A cuboid is a box-shaped solid object. It has six rectangular faces and all angles are right angles.   |   |
| Prisms | A prism object with two identical ends and flat sides. The shape of the ends usually give the prism the name, e.g. triangular prism. <ul style="list-style-type: none"> <li>The cross section is the same all along its length.</li> <li>The side faces are rectangles.</li> </ul> |  |

|             |   |  |
|-------------|---|--|
| Pyramids    | A solid object where: <ul style="list-style-type: none"> <li>The base is a polygon</li> <li>The sides are triangles which meet at the top.</li> </ul> The shape of the base usually gives the name of the pyramid, e.g. square based pyramid. |  |
| Tetrahedron | A 3D shapes made up of 4 equilateral triangles faces.   |   |
| Net         | A pattern that you can cut and fold to make a model of a 3D shape.  |  |

## Unit Conversions

|          | Definition   | Example   |
|----------|--|---|
| Time     | 1 minute = 60 seconds<br>1 hour = 60 minutes<br>1 hour = 3600 seconds (60x60)<br>1 day = 24 hours<br>1 week = 7 days<br>1 year = 365 days<br>1 year = 12 months<br>1 year = 52 weeks (about)<br>1 decade = 10 years<br>1 century = 100 years<br>1 millennium = 1,000 years | 2 and a half minutes = 150 seconds<br>1 and half hours = 90 minutes<br><br>3 days = 72 hours<br>A fortnight = 2 weeks<br>A leap year = 366 days<br><br> |
| Length   | 10mm = 1cm<br>100cm = 1m<br>1,000m = 1km   | 1.6cm = 16mm;    0.4cm = 4mm<br>3.6m = 360cm;    16.05m = 1605cm<br>4.5km = 4,500m;    2.07km = 2070m   |
| Capacity | 1,000ml = 1 litre  | 4.5 L = 4,500ml;    2.07 L = 2070ml<br>Half a litre = 500ml<br>Quarter of a litre = 250ml   |
| Mass     | 1,000g = 1 kg  | 4.5g = 4,500g;    2.07kg = 2070g<br>Half a kilogram = 500g<br>Quarter of a kilogram = 250g  |