| Multiplication and division vocabulary |  |  |
| :---: | :---: | :---: |
| Term | Definition | Example |
| factor | a number that divides exactly into another number | factors of $12=$ $1,2,3,4,6,12$ |
| common factor | factors of two numbers that are the same | common factors of 8 and $12=1,2,4$ |
| prime number | a number with only 2 factors: 1 and itself | $2,3,5,7,11,13,17,19 \ldots$ |
| composite number | a number with more than two factors | (it has $\begin{gathered}12 \\ 6 \text { factors) }\end{gathered}$ |
| prime factor | a factor that is prime | prime factors of $12=$ 2, 3 |
| multiple | a number in another number's times table | multiples of $9=$ $9,18,27,36$... |
| common multiple | multiples of two numbers that are the same | common multiples of 4 and $6=12,24 \ldots$ |
| square numbers | the result when a number has been multiplied by itself | $\begin{aligned} & 25\left(5^{2}=5 \times 5\right) \\ & 49\left(7^{2}=7 \times 7\right) \end{aligned}$ |
| cube numbers | the result when a number has been multiplied by itself 3 times | $\begin{gathered} 8\left(2^{3}=2 \times 2 \times 2\right) \\ 27\left(3^{3}=3 \times 3 \times 3\right) \end{gathered}$ |

Fractions, decimals \& percentages

| $1 / 100$ | 0.01 | $1 \%$ | $\div 100$ |
| :--- | :--- | :--- | :--- |
| $1 / 20$ | 0.05 | $5 \%$ | $\div 20$ |
| $1 / 10$ | 0.1 | $10 \%$ | $\div 10$ |
| $1 / 5$ | 0.2 | $20 \%$ | $\div 5$ |
| $1 / 4$ | 0.25 | $25 \%$ | $\div 4$ |
| $1 / 2$ | 0.5 | $50 \%$ | $\div 2$ |
| $3 / 4$ | 0.75 | $75 \%$ | $\div 4, \times 3$ |
| 1 | 1 | $100 \%$ | $\div 1$ |$\quad$| full turn | $360^{\circ}$ |
| :---: | :---: | :---: |
| half turn | $180^{\circ}$ |
| right angle | $90^{\circ}$ |
| acute angle | $<90^{\circ}$ |
| obtuse angle | $>90^{\circ}$ |
| reflex angle | $>180^{\circ}$ |
| angles on a straight line | $180^{\circ}$ |
| angles inside a triangle | $180^{\circ}$ |
| angles inside a quadrilateral | $360^{\circ}$ |


| Shape vocabulary |  |
| :--- | :--- |
| perimeter $=$ measure around the edge (circumference $=$ perimeter of a circle) |  |
| horizontal line | parallel lines <br> vertical line <br> perpendicular lines <br> (at right angles) |


| Measurement conversions |  |  |  |
| :---: | :---: | :---: | :---: |
| Month | Days | 1 centimetre | 10 mm |
| January | 31 | 1 metre | 100 cm |
| February | 28 (29 in leap year) | 1 kilometre | $1,000 \mathrm{~m}$ |
| March | 31 |  |  |
| April | 30 | 1 mile | 1.6 km |
| May | 31 | 1 kilometre | $0.625(5 / 8)$ mile |
| June | 30 |  |  |
| July | 31 | 1 kilogram | 1,000 grams |
| August | 31 |  |  |
| September | 30 | 1 litre | 1,000 millilitres |
| October | 31 |  |  |
| November | 30 |  | rdinates |
| December | 31 |  |  |
| $\begin{aligned} & 1 \text { year }=365 \text { days }(\approx 52 \text { weeks }) \\ & \text { Leap year }=366 \text { days } \end{aligned}$ |  | (horizontal) (vertical). E.g. ( 3 | irst, then the $y$ axis 4) = go right 3, down 4 |


|  |  |  |  |
| :---: | :---: | :---: | :---: |
| 3D shapes |  | square-based <br> pyramid | triangular- <br> based pyramid |
| faces <br> (the flat sides) | 5 | 4 | 5 |
| edges | 8 | 6 | 9 |
| vertices <br> (the points where <br> the edges meet) | 5 | 4 | 6 |

Volume = the amount of space a 3D shape takes up, usually measured in $\mathrm{cm}^{3}$ or $\mathrm{m}^{3}$


## The mean

The mean is a type of average. To find the mean, add up all the numbers and divide by how many there are. E.g. the mean of $4,5,3,4$ is 4 .

$$
\text { (Because } 4+5+3+4=16 \text {, and } 16 \div 4=4 \text { ) }
$$

