## WOODFALL PRIMARY SCHOOL

## -A-

| Acute angle <br> Addition | an angle less than 90 degrees <br> two or more numbers are combined (put together) to find their total; <br> recorded with a + sign |
| :--- | :--- |
| Adjacent | next to <br> the time that is shown on a clock-face, which is read according to the <br> position of the hour (short) and minute (long) hands. <br> the measure of the amount of rotation (turn) between two lines e.g. 90 <br> degrees (1/4 turn) |
| Anglogue time | moving in a circular path in the opposite direction to the hands on a clock, <br> starting to the left |
| Anticlockwise |  |$\quad$| the highest point (vertex) of a triangle, cone or pyramid |
| :--- |
| another word meaning estimate |

## -B-

Bar chart a graph which is used to represent discrete data on bars or rows
Bar line graph like a bar chart, but categories of discrete data are represented by lines
Base
Biased
Bisect
Brackets
Breadth
supporting face of a shape (at the bottom)
one outcome is favoured over another (making it more likely to be chosen)
2 lines which intersect at their half way point
used for grouping steps of a calculation and these are performed first width of a shape (distance from side to side)

## -C-

Cancelled a fraction is reduced or cancelled to its lowest terms when numerator and denominator have been divided by same amount as far as possible
Capacity the amount of liquid that will fit into a container (measured in ml or I )
Carroll diagram a diagram which sorts information into boxes according to common features
Circle
a flat shape with one curved side
the distance around the outside of a circle
moving in a circular path like the hands on a clock, starting to the right
Clockwise Common denominator two fractions can be changed into equivalent fractions if they have the same denominator -a multiple shared by both denominators from them
Common multiple multiple that appears in both multiplication tables e.g. a common multiple of 3 and 5 is 15 ; another is $30(10 \times 3$ and $6 \times 5)$

| Compasses | instrument used for drawing circles |
| :--- | :--- |
| Concave | a face which curves inwards, like the inside of a sphere |
| Cone | 3D shape with a circular base and a curved face forming an apex (point) |
| Congruent | two shapes are congruent if they are the same size and shape but may be a <br> different orientation |
| Consecutive number numbers which follow on from another, usually adjacent e.g. $3,4,5$ or in a |  |
| particular sequence e.g. the next consecutive even number after 4 is 6 |  |
| information which happens often without a break and can be represented on |  |
| a line graph as it is related |  |

Continuous data

| Divisibility test | a test which can be applied to a number to check if it is divisible by a particular number: |
| :---: | :---: |
|  | Divisible by... Test |
|  | 2 even (ends in 0,2,4,6,8) |
|  | 3 digits add to 3,6,9 |
|  | 4 even; TU digits divisible by 4 |
|  | 5 ends in 5 or 0 |
|  | 6 even; digits add to 3,6,9 |
|  | 7 double $U$ digit and subtract from rest of number, result is 0 or multiple of 7 |
|  | 8 even; halve and test divisibility by 4 |
|  | 9 digits add to 9 |
|  | 10 ends in 0 |
| Division | dividing a number into equal groups or sharing; recorded with $a \div$ sign |
| Divisor | the number you divide by in a division calculation |
| Double | multiply by 2 or add a number to itself |
|  | -E- |
| Edge | a straight line in a solid shape where two plane faces meet |
| Equation | see Formula |
| Equilateral triangle | a triangle with all sides and angles of equal length |
| Equivalent | equivalent fractions have the same value and can be changed into other equivalent fractions so they can be compared e.g. $1 / 2$ is equivalent to $2 / 4$ |
| Estimate | rough guess towards correct answer, so for $4.2 \times 4.9$, a good estimate is 20 |
| Even chance | two or more outcomes are equally likely to happen and have a probability of 50:50 or 1/2 |
| Even number | an integer (whole number) which has no remainder when divided by 2 |
| Exterior angle | the angle outside a shape when the side is extended to form a straight line |
|  | -F- |
| Face | The outer plane surface of a solid shape |
| Factor | a number which will divide exactly into a whole number with no remainders e.g. factors of $6(1,2,3,6)$ |
| Factorise | a number can be factorised or split into two or more of its factors to make calculations easier e.g. $12 \times 24=(3 \times 4) \times(4 \times 6)=156$ |
| Fair | two or more outcomes have an even chance of happening - there is no bias towards one |
| Figure | see digit |
| Flat shape | a 2D shape (also known as plane) |
| Formula | a set of rules which will calculate the answer to a problem e.g. $C=M-P$ will find the change $C$ to give from amount of money $M$ if a price $P$ is charged |
| Frequency | how often something happens |


| Half/halve | divide by 2 |
| :--- | :--- |
| Hemisphere | half of a sphere |
| Hexagon | a 6 sided flat shape |
| Horizontal | a line parallel to the Earth's surface (flat) |

> -I-

Imperial measure

Improper fraction

Increase
Integer
Interior angle
Intersect
Inverse

Irregular shape
Isosceles triangle
the old units of measure:
1 pint $\quad \approx 570 \mathrm{ml}$

1 ounce $\quad \approx \quad 30 \mathrm{~g}$
1 pound (16oz) $\approx 450 \mathrm{~g}$
1 stone (14lbs) $\approx 6.5 \mathrm{~kg}$
1 inch $\approx 2.5 \mathrm{~cm}$
1 foot (12 inches) $\approx 30 \mathrm{~cm}$
1 yard (3 feet) $\approx 90 \mathrm{~cm}$
1 mile $\quad \approx \quad 1600 \mathrm{~m}$ or 1.6 km
a common fraction which is greater than one whole, since it has a larger numerator than denominator e.g. 5/4
to make bigger (usually by adding)
a whole number which can be positive or negative, including zero
the angle inside the corner of a shape
two lines intersect where they cross over one another
the inverse is generally the opposite of an operation e.g. addition is the inverse of subtraction: it reverses the process
a shape with uneven sides and angles
a triangle with two equal sides and two equal angles

> -K-

Kite

## Length

Line graph

Likelihood
Long division
Lowest terms

2D shape with 2 pairs of equal adjacent sides

## -L-

distance from one end to the other (usually longer side)
representing continuous data where points are joined together with a continuous line
how likely an event is to happen; the amount of chance division by a 2 or 3 digit number using any method a fraction can be cancelled or simplified to its simplest form e.g. $3 / 6=1 / 2$

## -M-

a measure of how heavy an object is
the greatest possible amount

| Mean | another word for average. Add a set of numbers and divide by how many there are e.g. 8, 7, 3: 6 is the mean |
| :---: | :---: |
| Median | the middle number when a set of numbers are put into numerical order e.g. $4,7,8,11,13: 8$ is the median |
| Metric | the decimal units of measure we use to measure length, mass, volume, etc. e.g. $\mathrm{kg}, \mathrm{cm}, \mathrm{ml}, \mathrm{m}$ <br> Conversions |
|  | Length Mass Capacity |
|  |  |
|  | $100 \mathrm{~cm}=1$ metre $1000 \mathrm{~kg}=1$ tonne |
|  | $1000 \mathrm{~m}=1 \mathrm{~km}$ |
| Minimum | the smallest possible amount |
| Mixed number | number which has a whole number coupled with a fractional number e.g. $1 \frac{1}{2}$ |
| Mode | the highest in a list of numbers, the one that comes up the most often e.g. $4,12,3,10,2,3: 3$ is the mode |
| Multiples | the numbers which a given number will divide into e.g multiples of 10 are 10, $20,30 \ldots$; multiples of 3 are $3,6,9,12$, ... |
| Multiplication | a quick way of adding the same number to itself several times e.g. $2 \times 3=$ $2+2+2$; recorded with $a \times$ sign |
|  | -N- |
| Negative number | a number less than zero ( $O$ ) shown by a negative (minus) sign before the value e.g. $-4,-3.2,-450$ |
| Net | the shape that would result if a 3D shape were unfolded and laid out flat |
| Numeral | see digit |
| Numerator | the top part of a fraction which represents the number of parts being considered |
|  | -0- |
| Obtuse angle | an angle greater than 90 degrees but less than 180 degrees |
| Octagon | an 8 sided flat shape |
| Odd number | an integer (whole number) which has a remainder when divided by 2 |
|  | -P- |
| Parallel | two parallel lines are the same distance apart at every point along them and will never meet |
| Parallelogram | a 4-sided shape with opposite sides equal in length and parallel |
| Partition | to split a number into the values of its digits in order to carry out a calculation |
| Pentagon | a 5 sided flat shape |
| Percentage | number expressed in fractional form as part of a hundred: $\frac{1}{2}$ is 50/100 or 50\% |
| Perimeter | the distance around the boundary (outside edge) of a shape |
| Perpendicular | two perpendicular lines join at right angles to one another |

$\left.\begin{array}{ll}\text { Pie chart/graph } & \begin{array}{l}\text { a circular graph in which the sectors represent the frequency of an event } \\ \text { (like slices of a cake) }\end{array} \\ \text { two dimensional or flat shape } \\ \text { A plane (two dimensional) shape with three or more straight-line sides e.g. } \\ \text { pentagon ( } 5 \text { sides), decagon (10 sides) }\end{array}\right]$

| Remainder | amount left over when a number is divided into equal groups |
| :---: | :---: |
| Rhombus | a four sided shape with opposite sides parallel and all sides equal in length |
| Right angle | an angle measuring 90 degrees or a quarter turn |
| Rotate | a shape is turned around a fixed point by a given angle |
| Rotational | y a shape can fit inside itself when rotated (turned). A square has rotationa |
| Rounding | a number is estimated to the nearest unit, ten, hundred, etc (5 or more in the next lowest value place means we round up; 4 or less we round down) |

Scalene triangle a triangle with all sides and angles unequal
Sequence

Semi-circle
Sharing
Short division
Side
Simplify
Solid shape
Sphere
a set of numbers written in a particular order and following a pattern e.g.
the sequence of numbers $2,4,6,8,10$ are an even number sequence between 0 \&10
half of a circle
dividing by giving out a set of objects one at a time, on a "one for me one for you" basis
dividing by a single digit number using any method
the border of a surface in a plane shape
see cancelled
a three dimensional shape e.g. sphere
a 3D shape with only one curved face
a quadrilateral with 4 equal sides (opposite sides parallel) and 4 right angles the result when a number is multiplied by itself e.g. $3 \times 3=9$, so 9 is a square number.
Square root the number that when multiplied by itself makes a square number; 3 is the square root of 9
Straight angle an angle of 180 degrees
Strategy
the method used to solve a problem
Subtraction one number is taken away from another number to find the difference;
recorded with a-sign
Sum the result of an addition
Surface area area covering surface of a 3D shape
Symmetry
or reflective symmetry. A shape has reflective or line symmetry it if it takes the same shape either side of a line running through it. A square has 4 lines of symmetry, a rectangle has 2
-T-

| Tally | a method for counting the frequency in "bunches" of 5 |
| :--- | :--- |
| Tessellate | shapes fit together without any gaps |
| Tetrahedron | 3D shape with 4 faces |
| Translation | the movement of an object following given directions e.g. right 3, up 2 |
| Transformation | changing a shape by turning, moving, stretching, reflecting, enlarging, etc |
| Trapezium | a quadrilateral with just one pair of parallel sides |
| Triangle | a 3 sided polygon |

Triangular number a sequence of numbers $1,3,6,10,15$... .. which can be shown as triangles of different sizes
Triangular prism a 3D shape with two triangular end faces and 3 rectangular faces

$$
-V-
$$

| Vertex | corner point of a plane or solid shape, where two or more sides or edges <br> meet (plural vertices) |
| :--- | :--- |
| Vertical | a line which is perpendicular (at right angles) to a horizontal line |
| Venn diagram | a diagram used to represent sets in which information can be sorted <br> a measure of how much space something takes up. The volume of a cuboid is <br> lenge |
|  |  |

$$
-W-
$$

Width distance across a shape from one side to another (also known as breadth)

## Vocabulary for Calculation with the four Operations:

| Addition | Subtraction <br> add | Multiplication <br> lots of | Division <br> divide |
| :--- | :--- | :--- | :--- |
| more | take away | $(4 \times 3$ is 3 lots of 4) | share |
| plus | minus | groups of | share equally |
| increase | decrease | product | equal groups of |
| sum | leave | multiply | divided by |
| total | how many left | multiplied by | divided into |
| altogether | difference | multiple of | divisible by |
| how many more | how many fewer | repeated addition | what is remaining |
| double | halve, half | $\ldots$ times as big | halve, half |
| how many less |  | double | remainder |
|  |  | row |  |
|  |  | column |  |
|  |  | times |  |

Mrs K Smith (Maths Subject Leader) Updated 2013

