Fern Hill Mathematical Glossary

Acute angle	An angle of less than 90°.
Addition	Finding the total value of two or more numbers. Denoted by the symbol '+'.
Analogue clock	A clock which tells the time using an hour hand to indicate the hour and
	a minute hand to indicate minutes to and past the hour.
Angle	The space between two intersecting lines, measured in degrees .
Area	The amount of space taken up by a 2D shape. Measured in square
	centimetres, metres etc. Also shown as cm ² , m ² and so on.
Arithmetic	Maths which deals with the properties of numbers and how to
	manipulate numbers using the four operations .
Array	A pictorial representation to help children understand multiplication and
	division. Typically shown as rows of dots, for example, 2 x 3 would be
Amaru canda u	shown as two rows of three dots.
Arrow cards x	Used to help children understand partitioning and recombining in place value, Each card shows a hundreds, tens or ones number, e.g. 200, 500, 50,
	70, 3, 4, and can be placed on top of one another to make 2- and 3-digit
	numbers and so on.
Average	The average of a set of values is the 'middle' value, calculated by finding the
	total of the values then dividing by the number of values.
Axes	The horizontal and vertical lines used to frame a graph or chart.
Bar chart	A chart that displays information using blocks of different heights displayed
	on axes .
Block graph	A simple chart which displays information using blocks, displayed on a
	horizontal axis labelled with categories, and a vertical axis labelled with
	numbers. Each block represents one unit.
BODMAS	This acronym helps children to remember what order they should do
	calculations in a multi-step calculation. It stands for Brackets, Orders,
	Division, Multiplication, Addition, Subtraction.
Bridging through	A mental method of adding two numbers whose total is greater than 10.
10	Pupils are taught to count on to 10 and then add the remainder of the number to 10. For example: 7 + 9 - bridging from 7 to 10 requires 3, which
	leaves 6 (from the original
	9), $10 + 6 = 16$.
Calculation	Working out the amount or number of something, usually by using one of the
darculation	four operations.
Capacity	The term used when measuring how much fluid fits inside a container.
	Measured in millilitres and litres.
Cardinal numbers	Numbers used to count a set of objects and give information about quantity –
	one, two, three, four and so on.
Carroll diagram	A way of sorting and presenting information using columns and rows.
Chunking	A method used for dividing large numbers. Children are taught to use rough
	estimates of how many times a number will go into another number and
	then to adjust until the right answer is found (repeated subtraction of the
	divisor and multiples of the divisor – in other words, working out how many
G. 1	groups of a number fit into another number).
Circle	A 2D shape with one curved face and no vertices .
Circumference	The measurement of the distance all the way around the outside of a circle .
Clockwise and	A way of indicating the direction of a turn. Clockwise involves a turn to the
	right as if following the hands of a clock, anti-clockwise involves a turn to

anti-clockwise	the left, against the direction of a clock's hands.
Coordinates	The numbers which show the position of a particular point in space – for
	example on a map or a graph. The points are marked according to numbers
	of the horizontal axis (x-axis) and vertical axis (y-axis).
Column method	A method of calculation where the numbers to be added or subtracted are
	set out above one another in columns. The calculation is done by
	exchanging numbers from column to column.
Commutativity	Addition and multiplication have the property of commutativity – when
	two numbers are added or multiplied, this can be done in any order and the
	same answer will be obtained: $3 + 2 = 5$, $2 + 3 = 5$; $4 \times 6 = 24$, $6 \times 4 = 24$.
	Subtraction and division are not commutative.
Concrete	Anything which children may use to help them carry out practical maths
materials	activities, for example counters to help with addition, cubes and rods for
	place value or playdough to make 3D shapes.
Cone	A 3D shape with two faces, one circular, one edge and one vertex.
Converting into	Understanding the connection between units of measurement and how they
the same units	can be converted one to another. For example, length can be measured in
	centimetres or metres; there are 100cm in a metre.
Corner	Used to describe the angles of a 2D shape .
Cube	A 3D shape with six square faces , 12 edges and eight vertices .
Cube numbers	A number which is the result of multiplying a number by itself and
	then by itself again. For example 27 is the cube number of 3: $3 \times 3 \times 3 =$
	$27, 3^3 = 27$
Cuboid	A 3D shape with six faces , some or all of which are rectangular, 12 edges and
	eight
	vertices.
Cylinder	A 3D shape with two circular faces, one rectangular face, two edges and
	no vertices.
Data handling	Now known as Statistics . The area of maths which looks at representation
	and analysis of information through charts and graphs.
Decimal	A decimal number is expressed in the scale of tens. More simply, numbers
	are referred to as decimal if they contain a decimal point and represent a
	whole number plus a fraction of a whole number (tenths, hundredths, etc.)
Degree	The unit of measurement for angles and also for temperature. Represented
	by the symbol ° for angles (e.g. 90°) or °C (degrees Centigrade) and °F
	(degrees Fahrenheit) for temperature.
Denominator	In a fraction , the number below the line.
Diagonal	A straight line that joins two vertices of a shape that are not next to each
	other.
Diameter	A straight line that joins two points on the circumference of a circle and
	passes through the centre.
Dienes	Wooden or plastic cubes, rods and flats used to support children in learning
	place value. Each small cube represents one unit, a rod represents 10, a flat
	represents 100 and a large cube represents 1000.
Digital clock	A clock which tells the time using numbers only.
Division	The process of dividing a number up into equal parts, and finding how many
	equal parts can be made and whether there is a remainder . It is represented
	by the symbol '÷' or sometimes '/'.
Division fact	A division number sentence related to the times tables . For example, the
	division fact $16 \div 4 = 4$ is related to the 4x table.

Divisor	The number of groups that a number is to be divided into as part of a division calculation e.g. in the calculation $10 \div 5$ the divisor is 5.
Edge	The place on a 3D shape where two faces meet.
Equation	A number sentence where both sides are equal – for example $10 + 2 = 8 + 4$
Equilateral	A triangle with three equal sides and three equal angles.
triangle	The state of the control of the cont
Equivalent	Fractions which represent the same amount but are expressed using
fractions	different numbers. For example $\frac{1}{3}$ is the same as $\frac{2}{6}$ and $\frac{4}{12}$.
Estimate	Sometimes called an 'educated guess'. Estimating is roughly guessing a
	number of objects or the answer to a calculation based on existing
	knowledge.
Even numbers	All numbers that are exactly divisible by 2. Even numbers always end with
	0, 2, 4, 6 or 8.
Exchanging	The correct terminology for the 'carrying/borrowing' in column addition
	and subtraction.
Expanded	Writing number sentences where the numbers have been partitioned. For
method	example $43 + 26$ could be written as $40 + 3 + 20 + 6$.
Face	Any flat surface of a 3D shape . Faces can be flat or curved and of many
1 4400	different shapes.
Factor	A factor is one of two or more numbers that divides a given number without
ractor	
	a remainder. In the number sentence $4 \times 5 = 20$, both 5 and 4 are factors of
D: 1: .1	20.
Finding the	A way of carrying out subtraction calculations by finding the numerical
difference	difference between two numbers. So to solve the number sentence 47 – 34,
	find the difference between 34 and 47. Most often taught by using a number
	line to count on from the smaller to the bigger number.
Formula	A formula is a group of mathematical symbols and numbers that show how
	to work something out. Formulae children will learn in primary school
	include the formula for calculating the perimeter and area of 2D shapes
	and the formula for the volume for 3D shapes .
Fraction	A fraction is a number which represents part of a whole. It can be
	represented using a numerator and denominator e.g. $^{1}/_{2}$, or as a decimal e.g.
	0.5.
Geometry	The study of shape, position and movement. Includes such aspects as 2D
deometry	and 3D shapes, angles, symmetry, pattern, tessellation, turns and
	position.
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Graph	A pictorial way of representing and comparing information. Types taught in
	primary school include block graphs, bar charts, pictograms, pie charts and
	line graphs.
Greater than (>)	The inequality signs used to show the relative size of numbers. The
and less than	wide end of the symbol always faces the larger number, e.g. $25 > 10$.
(<)	
Grid method	The grid method is a written technique used to teach children
	multiplication. It involves partitioning numbers into tens and units before
	they are multiplied, and placing them in a grid. The numbers are then
	multiplied two by two and the results are added together to give a total
	answer.
Hexagon	A 2D shape with six sides and six vertices.
Highest common	The highest common factor of two numbers is the largest whole number
111011001	which is a
L	1

factor	factor of both.
Horizontal	A horizontal line runs from left to right joining equivalent points on
	two opposite sides of a shape.
Improper fraction	An improper fraction has a higher number on top (the numerator) than
improper fraction	the bottom (the denominator).
Integer	See whole number
	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Inverse operation	The calculation which is opposite to a given calculation, and effectively reverses it. Addition is the inverse of subtraction, multiplication is the
	inverse of division.
	So for the calculation $4 + 3 = 7$, the following calculations also apply: $3 + 4 = 7$ (commutativity), $7 - 4 = 3$, $7 - 3 = 4$. For the calculation $3 \times 2 = 6$, we
	can also say 2 x 3 = 6 (commutativity), $6 \div 2 = 3$, $6 \div 3 = 2$.
Investigation	Maths investigations require pupils to apply skills and knowledge to solving
investigation	problems. Investigations differ from word problems because there isn't
	always just one way of one way of working them out, and the solution might
	have to be found through trial and error. Sometimes there may be several
	answers.
Irregular shapes	2D shapes whose sides and angles are not all the same.
Isosceles triangle	A triangle with two sides the same length and two angles the same size.
Jottings	Informal written work done to help to work out the answer to a
Jottings	calculation or a problem.
Line graph	A graph used to show changes over time, for example changes in
Line graph	temperature through a day. It is created by plotting points and joining
	them with straight lines.
Long division	A written method of dividing a large number, usually by another
Long arviolon	large (at least 2-digit) number.
Long	A written method of multiplying two large numbers.
multiplication	and the state of t
Lowest common	The smallest number that is exactly divisible by the denominator of a set of
dominator	fractions. For example, the lowest common denominator of $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{5}{6}$
	would be 12, as it the smallest number divisible by 2, 4 and 6.
Lowest common	The lowest common multiple of two whole numbers is the smallest number
multiple	that is a
	multiple of both. For example, the lowest common multiple of 3 and 4 is 12.
Mass	This refers to the weight of an object. It is measured in grams (g) and
	kilograms (kg).
Mean	In a set of data, the mean is the total sum of all the values divided by the
	number of values in the set. A type of average.
Measurement	In Maths, children learn about different forms of measurement,
	including length, weight (mass), capacity, time and temperature.
Median	The middle number in a list of numbers that has been ordered from
	smallest to largest. So in the list 2, 2, 3, 3, <u>3</u> , 4, 5, 6, 6 the median value
	is 3. A type of average.
Mental method	Calculations and problem solving carried out mentally, without the need to
	write down any working out.
Mirror line	A line which can be drawn onto a shape to show that both sides have exact
	reflective symmetry.
Mixed number	A number that is made up of a whole number and a fraction , for example 3½.
Mode	The value that appears most often in a set of data. So in the list 2, 2, 3, 3, 3, 4,
	5, 6, 6 the modal number is 3 as it appears most often. A type of average.
<u> </u>	, ,

	multiple is a number that can be divided by another number a certain umber of times without a remainder. In the number sentence $4 \times 5 = 20$,
	0 is a multiple of 4 and a multiple of 5.
_	inding how many altogether in a given number of equal sized groups. epresented by the symbol 'x'.
Multiplication fact T	The answer to a multiplication calculation. For example in $3 \times 3 = 9$, the multiplication fact is 9 .
	The multiplication calculations for all numbers from 1 x 2 to 12 x 10.
-	Isually grouped by the number being multiplied. Children begin by learning
	ne 2x, 5x and 10x tables, and the English curriculum requires that
	nultiplication tables and the related division facts are known by heart by
	ne end of Year 6.
_	The number by which a given quantity is multiplied. So in the calculation 5 $3 = 15$, the multiplier is 5 .
	number that is less than zero, for example -3, -52.
	What a 3D shape would look like if it was opened out flat.
	airs of numbers that add up to a specific number. For example, the
	umber bonds to 10 are $10 + 0$, $9 + 1$, $8 + 2$ and so on. Children are taught
th	nese bonds early on, as they help calculation skills and also show patterns
th	nat are repeated for other number bonds, for example to 20 or 100.
Number facts B	asic addition, subtraction, multiplication and division facts that children
sł	hould learn to recall instantly to support more complex calculations.
E	xamples include number bonds and multiplication tables .
Number ladder A	vertical version of a number line .
Number line A	visual representation of numbers along a horizontal line. Can start at zero
	r represent a set of numbers from elsewhere in the number system. Used to
SI	upport counting, place value and calculation skills.
Number sentence A	In arrangement of numbers and symbols. $3 + 4 = 7$ is an addition number
Se	entence, $7 - 3 = 4$ is a subtraction number sentence. $3 \times 5 = 15$ is a
m	nultiplication number sentence, $15 \div 3 = 5$ is a division number sentence.
Number square A	set of numbers written in sequence in a square format. Often used with
n	umbers from 1 to 100, it is a valuable primary school teaching aid as it
te	eaches number sequences and patterns, as well as basic addition and
SI	ubtraction.
Numerator In	n a fraction , the number above the line.
Numicon A	primary school teaching aid consisting of plastic tiles with holes which
	epresent the numbers 1 to 10 and can be used to teach place value,
	rdering and calculation.
_	quadrilateral with two pairs of parallel sides, and adjacent sides of
	ifferent lengths. (Referred to as rectangle in the UK).
	n angle greater than 90° but less than 180°.
	ll whole numbers which are not exactly divisible by 2. Odd numbers
	lways end in 1, 3, 5, 7 or 9.
	2D shape with eight sides and eight vertices.
	the four mathematical operations are addition , subtraction , multiplication nd division .
Ordering P	utting numbers in the correct order according to size. Ascending order goes
	mallest to largest, descending order from largest to smallest. Ordering also
in	nvolves using the greater than, less than and equals symbols $(<, > $ and $=)$.

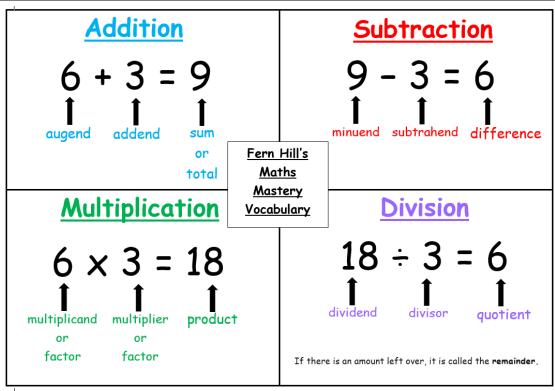
Ordinal numbers	Numbers which indicate order – 1 st , 2 nd , 3 rd and so on.
Parallel	Lines which have exactly the same distance between them for their full
	length, and will never cross.
Partitioning	See also recombining . Partitioning is dividing a number into the individual
	values of its digits, and helps children to understand the values of these
	digits. For example 782 can be partitioned into $700 + 80 + 2$.
Pentagon	A 2D shape with 5 sides and 5 vertices.
Percentage	A number or ratio expressed as a fraction of 100. Using percentages
	suggests a number which has been divided into 100 parts.
Perimeter	The distance all the way around a 2D shape – the total length of all its sides.
Perpendicular	Lines which intersect at a right angle are perpendicular.
Pictogram	A chart or graph which uses pictures to represent data. They are set out the
	same way as bar charts but use pictures instead of bars. Each picture could
	represent one item or more than one.
Pie chart	A circular chart divided into sections to represent different values in a set of data.
Place value	The value of all the digits in a number. For example, in the number 627,
	the digit '2' is worth 20, the digit '6' is worth 600.
Place Holder	Used to describe the digit '0' in a place value column. For example, in the
	number 304, 0 is a place holder representing there are no tens. Without it,
	the number would be 34.
Polygon	A 2D shape with straight, fully closed sides. A polygon can have any
7.0	number of sides. The most common are triangles, squares, hexagons etc.
Prime numbers	A number greater than 1, which cannot be divided exactly by any number
	except 1 and itself. The first few prime numbers are 2, 3, 5, 7, 11, 13 – all
	numbers which can only be divided exactly by 1 and themselves.
Prism	A 3D shape with flat sides and identically shaped end faces. The cross
	section of a prism is the same all the way through. Examples are a
	triangular prism and a hexagonal prism.
Probability	Also known as chance or likelihood. The study of how likely something is to
	happen. It can be described in words (e.g. 'It is certain that the sun will set
	tonight'; 'it is unlikely that my face will turn green') or using numbers or
	percentages (e.g. 'I have a one in 6 chance of throwing a 3 using a normal
	dice').
Product	The product of two numbers is the result achieved when they are multiplied
	together.
Proportion	Studying a portion or part in relation to a whole. See also ratio .
Pyramid (square-	A 3D shape with 4 triangular faces , one square face and 5 vertices .
based)	
Pyramid	A 3D shape with 4 triangular faces and four vertices .
(triangular-	
based)	
Quadrilateral	Any shape with four sides .
Radius	A straight line drawn from the centre of a circle to any point on its circumference.
Range	The difference between the largest and smallest number in a set of data.
Ratio	Comparing values in relation to one another, looking at how much of one
	thing there is in relation to another. See also proportion.
Recombining	See also partitioning . Recombining is putting the individual digit place

	values of a number back together to make the original number. For
	example $200 + 50 + 3$ is recombined to make 253.
Rectangle	A 2D shape with four straight sides and four right angles. Opposite sides
1.000	are the same length.
Reflection of	Drawing the reflection of a shape in a mirror line means drawing the
shapes	shape on the other side of the line as if it has been flipped over the line.
Reflective	When a shape or pattern is reflected in a mirror line or line of symmetry.
symmetry	The reflected shape will be an exact mirror image of the original, the
	same size and the same distance from the mirror line.
Reflex angle	An angle of between 180° and 360°.
Regular shapes	2D shapes with closed sides, where all sides are the same length and all
	angles are the same.
Remainder	The amount left over when a number cannot be exactly divided by another
	number. For example, if we divide 10 by 3, we get three groups of 3 with a
	remainder of 1.
Repeated addition	A way of teaching about multiplication as the repeated grouping of the same
	number. For example, 4×2 is the same as four groups of 2, or $2 + 2 + 2 + 2$.
Repeated	A way of teaching about division as the repeated subtraction of the same
subtraction	number down to zero. For example $15 \div 3$ is the same as 15 shared into 3
	groups of 5, or 15
D. 1	-5-5-5=0.
Right angle	An angle of exactly 90°. The two lines which make a right angle are perpendicular.
Right-angled	A triangle with one angle of 90°. Also known as a quarter turn, because
triangle	it is one quarter of a full turn.
Roman numerals	The numbers that were used in ancient Rome, combinations of letters
	from the Roman alphabet (I, V, X, L, C, D, M).
Rotation of	The movement of shapes around a fixed point, by a given number of
shapes	degrees and in a certain direction (clockwise or anticlockwise). The shape
	itself will remain the same but its position in the space will change.
Rotational	When a shape or a pattern can be rotated around a fixed point but remains
symmetry	the same.
Rounding	Adjusting digits up or down to the nearest tens, hundreds, thousands
numbers	number etc. in order to make calculations easier.
Scale factor	When increasing the size of a 2D shape the scale factor is the amount by
	which the size is increased.
Scalene triangle	A triangle with thee sides of different lengths and three different angles.
Sharing	Children learn early on how to share a number of objects into equal
C: 1	groups. This develops an early understanding of division .
Side	One of the lines, straight or curved, which encloses a 2D shape .
Simplifying	Finding an equivalent fraction where the numbers are reduced as much as
fractions	possible. For example, the fraction $^{16}/_{24}$ in its simplest form would be $^{2}/_{3}$.
Sphere	A 3D shape with one curved face, no edges and no vertices.
Square	A 2D shape with four equal sides, four vertices and four right angles.
Square number	A number which is the result of multiplying a number by itself. For example
Ctondard and	16 is the square of 4: $4 \times 4 = 16$, $4^2 = 16$.
Standard and non-standard	Standard units are the common units used in measurement, for example
units	centimetres, litres, grams. Non-standard units are used for measurement with younger children, to introduce them to the concept of measuring - for
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	Word problem	

	find the key information, work out what type of calculation is needed and then work out the answer.
Working	Written work which supports finding an eventual answer to a calculation or a problem. Important as it shows how a pupil tackled the problem and the skills they used to work out the problem.
Written method	A way of carrying out a calculation which is done on paper rather than entirely mentally.
24 hour clock	The 12 hour clock runs from 1 o'clock to 12 o'clock twice per day. The 24 hour clock runs from 00:00 hours (midnight or 12.00 am) through 24 hours to 23:59 (11.59 pm).
2D shapes	Shapes which are flat, having only two dimensions – height/length and width.
3D shapes	Shapes which have a solid form, having 3 dimensions – height/length, width and depth.

KS1:



KS2:

