

	alculation which doesn't use the support
of concrete or pictorial mo	
	nore numbers. Denoted by the symbol '+'.
· · · · · · · · · · · · · · · · · · ·	used to help children with multiplication
	vn as rows of dots, for example 2 x 3
would be shown as two ro	
	g two numbers whose total is greater than
•	the boundary first, then through it. E.g. 18
	boundary so we would add 2 to make 20
and then 2 to make 22.	
	multiplication or addition can be made in
·	ame <i>product</i> or <i>sum</i> respectively.
<i>eg: 8+5+2 = 15; 2+5+8 = 15</i>	
3x4x10 = 120; 10x4x3 = 120	
	to demonstrate <i>commutativity</i> .
Subtraction and division ar	e not commutative.
Composite numbers A whole number that can be	be divided exactly by numbers other than 1
or itself. Example: 9 can be	divided exactly by 3 (as well as 1 and 9),
so 9 is a composite number	r.
• •	ay use to help them carry out practical
maths activities e.g. counte	ers, cubes, Base 10
Counting back As with <i>counting on,</i> but in	
Counting on When performing a calcula	tion, such as 8 + 3, start at 8 and count: 9,
10, 11. You can <i>count on</i> or	back in TENS or HUNDREDS etc. as well as
ONES.	
Decimal A decimal number is expre	ssed in the scale of tens. More simply,
	a decimal if they contain a decimal point
	nber plus a fraction of a whole number
(tenths and hundredths et	c).
Dividend The number being divided.	
	umber up into equal parts and finding out
,	be made and whether there is a
remainder. It is represente	
Divisor A number that will divide t	he dividend exactly.
Exchanging The correct term used inst	ead of 'borrow' or 'pay back'. E.g.
exchange one ten for ten o	
Factor A factor is one of two or m	ore whole numbers that divides a given
number without a remaind	er. In the number sentence 2 x 6 = 12,
both 2 and 6 are factors of	12.
Finding the A way of carrying out subtr	action calculations by finding the
difference numerical difference between	een the two numbers. E.g. the difference
•	
between 2 and 5 is 3.	
	uals groups you can make out of a
Grouping This refers to how many ed number e.g. there are 4 gro	



	subtraction and vice-versa. The inverse of a multiplication is a divide.
	However, the inverse of a divide calculation is not always a
	multiplication
	5 + 15 = 20 $20 - 5 = 15$ (and vice-versa)
	$3 \times 4 = 12$ $12 \div 4 = 3$ BUT
	$12 \div 4 = 3$ 3 x 12 is not 4! (You have to do 12 ÷ 3 to get 4).
Lowest common	The lowest common multiple of two whole numbers is the smallest
multiple	number that is a multiple of both. For example, the lowest common
	multiple of 3 and 4 is 12.
Multiple	A multiple is a number that can be divided by another number a
	certain number of times without a remainder. In the number
	sentence 4 x 5 = 20, 20 is a multiple of 4 and 5.
Multiplication	Finding how many altogether in a given number of equal sized
	groups. Represented by the symbol 'x'.
Minus	Another word for subtract.
Number bonds	Pairs of numbers that add up to make a specific number. E.g. the
	number bonds to 10 are 10+0, 9+1, 8+2 etc. Children are taught
	these early on so they can apply this knowledge to number bonds to
	20, 100, 1000, 10,000, bridging to the next 10 etc.
Number line	A visual representation of numbers along a horizontal line.
Number Sentence	An arrangement of numbers and symbols which makes sense and is
	correct e.g. 3+4 = 7.
Operation	The four mathematical operations are addition, subtraction,
	multiplication and division.
Partition	Splitting a number greater than 10 into its constituent THOUSANDS,
	HUNDREDS, TENS and ONES.
	eg: 43 🛚 40 and 3
	356 2 300 and 50 and 6
	4723 2 4000 and 700 and 20 and 3
Pictorial	Pictures or diagrams used to solve a mathematical statement.
Place value	Place value determines the value of a digit depending on where it sits
	in the written number.
	eg: 4 5 62 1 The '5' represents 500 in this case. When performing
	column methods, it is important that the children are secure with
	place value in order to line the numbers with TENS under TENS etc.
	Children need to understand place value in order to write numbers
	accurately, such as: four-hundred and 2. A child without place value
	understanding may write 4002 (ie: 400, then 2).
Prime factors	A factor that is a prime number. In other words: any of the prime
	numbers that can be multiplied to give the original number. Example:
	The prime factors of 15 are 3 and 5 (because 3×5=15, and 3 and 5
Duima normala area	are prime numbers)
Prime numbers	A number that is only divisible by itself and 1. E.g. 2, 3, 5, 7, 11.
Product	The result (answer of a division
Quotient	The result/answer of a division.
Recombining	After partitioning and calculating, putting the numbers 'back
	together'.



Glossary of terms used in Maths teaching at Hardwick and Cambourne CP School

Regrouping	The process of changing groups of ones into tens to make adding and subtracting easier.
Remainder	The amount left over when a number cannot be exactly divided by another number e.g. $10 \div 3 = 3$ remainder 1
Repeated addition	A way of teaching about multiplication as the repeated grouping of the same number. For example, 4 x 2 is the same as four groups of 2 or 2+2+2+2.
Subtraction	Taking one number away from another, finding the difference between the two. Denoted by the symbol '-'.
Sum	The result of adding two numbers together. N.B. Sum only refers to addition calculations. It must not be used to refer to calculations.
Written method	A way of carrying out a calculation which is done on paper rather than entirely mentally.