



### **Maths Calculations Policy**

Aims: This policy has been devised to ensure fluency in Maths and support the progression of calculation concepts through the primary phase.

Specific equipment and approaches to teaching children have been suggested for each age group.

Children are expected to explore the calculation practically and record step by step using the formal written method to ensure they link both the practical and written methods.

There are key fluency expectations for each year group to ensure the calculations they face have the basic concepts from previous years. These will be the basis of on-going mental maths checks.

Teachers will understand the expectations and progression for all classes, regardless of the class they teach.

Key mental maths strategies that children should know for each year group:

Year	1	2	3	4	5	6
	1 more	10 more Number bonds: 20, 12, 13	Add multiples of 10, 100	Add multiples of 10s , 100s, 1000s	Add multiples of 10s , 100s, 1000s, tenths,	Add multiples of 10s , 100s, 1000s, tenths, hundredths
	Number bonds: 5, 6	Number bonds: 14,15  Add 1 digit to 2 digit by bridging.	Add single digit bridging through boundaries	Fluency of 2 digit + 2 digit	Fluency of 2 digit + 2 digit including with decimals	Fluency of 2 digit + 2 digit including with decimals
Addition	Largest number first. Number bonds: 7, 8	Partition second number, add tens then ones	Partition second number to add Pairs of 100	Partition second number to add  Decimal pairs of 10 and 1	Partition second number to add	Partition second number to add
	Add 10. Number bonds: 9, 10	Add 10 and multiples.  Number bonds: 16 and 17	Use near doubles to add	Use near doubles to add	Use number facts, bridging and place value	Use number facts, bridging and place value
	Ten plus ones.	Doubles up to 20 and multiples of 5	Add near multiples of 10 and 100 by rounding and adjusting	Adjust both numbers before adding	Adjust numbers to add	Adjust numbers to add





	Doubles up to 10	Add near multiples of 10.		Add near multiples		
	Use number bonds of 10 to derive bonds of 11	Number bonds: 18, 19 Partition and recombine	Partition and recombine	Partition and recombine	Partition and recombine	Partition and recombine
	1 less	10 less Number bonds, subtraction: 20, 12, 13	Subtract multiples of 10 and 100	Subtract multiples of 10s , 100s, 1000s	Subtract multiples of 10s , 100s, 1000s, tenths,	Subtract multiples of 10s , 100s, 1000s, tenths, hundredths
	Number bonds, subtraction: 5, 6	Number bonds, subtraction: 14, 15 Subtract 1 digit from 2 digit by bridging	Subtract single digit by bridging through boundaries	Fluency of 2 digit subtract 2 digit	Fluency of 2 digit - 2 digit including with decimals	Fluency of 2 digit - 2 digit including with decimals
Charte	Count back Number bonds, subtraction: 7, 8	Partition second number, count back in 10s then 1s	Partition second number to subtract	Partition second number to subtract  Decimal subtraction from 10 or 1	Partition second number to subtract	Partition second number to subtract
Subtraction	Subtract 10. Number bonds, subtraction: 9, 10	Subtract 10 and multiples of 10  Number bonds, subtraction:  16, 17	Difference between	Difference between	Difference between	Use number facts bridging and place value
	Teens subtract 10.	Subtract near multiples of 10	Subtract near multiples of 10 and 100 by rounding and adjusting	Subtract near multiples by rounding and adjusting	Adjust numbers to subtract	Adjust numbers to subtract
	Difference between	Difference between  Number bonds, subtraction:  18, 19	Difference between	Difference between	Difference between	Difference between
Multiplication	Count in 2s	2 x table	Review 2x, 5x and 10x	4x, 8x tables 10 times bigger	4x, 8x tables 100, 1000 times bigger	Multiplication facts up to 12 x 12
ividicipiication	Count in 10s	10 x table	4x table	3x, 6x and 12x tables	3x, 6x and 12x tables 10, 100, 1000 times smaller	Partition to multiply mentally





	Doubles up to 10	Doubles up to 20 and multiples of 5	Double two digit numbers	Double larger numbers and decimals	Double larger numbers and decimals	Double larger numbers and decimals
	Count in 5s	5 x table	8 x table	3x, 9x tables	3x, 9x tables	Multiplication facts up to 12 x 12
	Double multiples of 10	Count in 3s	3 x table	11x, 7 x tables	11x , 7 x tables  Partition to multiply mentally	Partition to multiply mentally
	Count in 2s, 5s and 10s	2 x, 5 x and 10 x tables	6 x table or review others	6x, 12 x tables	6x, 12 x tables	Double larger numbers and decimals
	Count back in 2s	Division facts (2 x table)	Review division facts (2x, 5x, 10x table)	Division facts (4x, 8x tables) 10 times smaller	Division facts (4x, 8x tables)  100, 1000 times smaller	Division facts (up to 12 x 12)
	Count back in 10s	Division facts (10 x table)	Division facts (4 x table)	Division facts (3x, 6 x, 12x tables)	Division facts (3x, 6 x, 12x tables)  Partition to divide mentally	Partition to divide mentally
	Halves up to 10	Halves up to 20	Halve two digit numbers	Halve larger numbers and decimals	Halve larger numbers and decimals	Halve larger numbers and decimals
Division	Count back in 5s	Division facts (5 x table)	Division facts (8 x table)	Division facts (3x, 9x tables)	Division facts (3x, 9x tables)  100, 1000 times smaller	Division facts (up to 12 x 12)
	Halve multiples of 10	Count back in 3s	Division facts (3 x table)	Division facts (11x, 7x tables)	Review division facts (11x, 7x tables) Partition decimals to divide mentally	Partition to divide mentally
	How many 2s? 5s? 10s?	Review division facts (2x, 5x, 10x table)	Division facts (6 x table) or review others	Division facts (6x, 12x tables)	Review division facts (6x, 12x tables) Halve larger numbers and decimals	Halve larger numbers and decimals





	Addition	Subtraction	Multiplication	Division
Written Methods	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals signs (=)	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals signs (=)		
Concepts to Understand	(Ten frame). Numicon Use bonds of 10 to calculate bonds of 20  Count all  Count on  Count on, on number track, in 1s	Count back on a number track, then number line.  15 – 6 = 9  7 and 8  13 and 8  13 – 8 =  8 + _ = 13	2 frogs on each lily pad.	6 ÷ 2 = 3 by sharing into 2 groups and by grabbing groups of 2
Simple expectations – mental strategies or quick notes	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \Box - 9$	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ −9	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
Background knowledge	Represent & use number bonds and related subtraction facts within 20 Add and subtract one-digit and two-digit numbers to 20, including zero	Represent and use number bonds and related subtraction facts within 20 Add and subtract one-digit and two-digit numbers to 20, including zero	Count in multiples of twos, fives and tens	Count in multiples of twos, fives and tens





	Addition	Subtraction	Multiplication	Division
Written Methods	Add and subtract two two-digit numbers using concrete objects, pictorial representations progressing to formal written methods  4 6  + 2 7  7 3  1	Add and subtract two two-digit numbers using concrete objects, pictorial representations progressing to formal written methods $\begin{bmatrix} 6 & 1 \\ 7 & 3 \end{bmatrix}$ $\begin{bmatrix} -\frac{4}{6} & 6 \\ 2 & 7 \end{bmatrix}$	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs
Concepts to Understand	Number track / Number line – jumps of 1 then efficient jumps using number bonds 18 + 5 = 23	Number track / Number line – jumps of 1 then efficient jumps using number bonds 23 – 5 = 18  Using a number line, 73 – 46 = 26  Difference between 73 – 58 by counting up, 58 + _ = 73  Taking away and exchanging, 73 – 46  Where a the Torty and six?  Now take away the forty and six.	5 frogs on each lily pad 5 x 3 = 15  5 x 2 = 2 x 5  Build tables on counting stick  Link to repeated addition	Link to fractions  15 ÷ 3 = 5 groups of 3 (grouping)  10 ÷ 2 = 5  Use language of division linked to tables  How many 2s?
Simple expectations – mental strategies or quick notes	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:  * a two-digit number and ones  * a two-digit number and tens  * two two-digit numbers	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:  * a two-digit number and ones  * a two-digit number and tens  * two two-digit numbers	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Solve problems involving multiplication and division, using materials, arrays, repeated	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Solve problems involving multiplication and division, using materials, arrays, repeated addition,
	adding three one-digit numbers	adding three one-digit numbers	addition, mental methods, and	mental methods, and multiplication





			multiplication and division facts, including problems in contexts	and division facts, including problems in contexts
Background knowledge	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	Recall and use x and ÷ facts for the 2, 5 and 10 x tables, including recognising odd and even numbers.	Recall and use x and ÷ facts for the 2, 5 and 10 x tables, including recognising odd and even numbers.

	Addition	Subtraction	Multiplication	Division
Written Methods	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction 4 2 3 + 88 5 1 1	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction 2 3 1 2 1 1 1 5 7	Write and calculate mathematical statements for ÷ using the x tables they know progressing to formal written methods.	Write and calculate mathematical statements for ÷ using the x tables they know progressing to formal written methods.
Concepts to Understand	Number line: 264 + 158 efficient jumps  40 + 80 = 120 using 4 + 8 = 12 So 400 + 800 = 1200  243 + 198 by '200 then -2 (Round and adjust)  Pairs that make 100 23 + 77  Place value counters, 100s, 10s, 1s 264 + 158	Taking away and exchanging, 344 – 187 Place value counters  'Where's the one hundred and eighty and seven?  Exchange to create three hundred and thirty and fourteen. Now take away the 'seven'  Exchange to create three hundred, thirteen tens and seven  Now take away the 'eighty'  Now take away the 'one hundred'	So 13 x 4 = 10 x 4 + 3 x 4  Build tables on counting stick	Grouping using partitioning 43 ÷ 3 if I know 10 x 3  4 3 / ÷ 3 3 0 / ÷ 3 + 1 3 / ÷ 3  Use language of division linked to tables  How many 3s?  10 20





Simple expectations – mental strategies or quick notes	Add and subtract numbers mentally, including:  * a three-digit number and ones  * a three-digit number and tens a three-digit number and hundreds	Add and subtract numbers mentally, including:  * a three-digit number and ones  * a three-digit number and tens a three-digit number and hundreds	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental methods	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental methods
Background knowledge			Recall and use x and ÷ facts for the 3, 4 and 8 times tables.	Recall and use x and ÷ facts for the 3, 4 and 8 times tables

	Addition	Subtraction	Multiplication	Division
Written Methods	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition where appropriate  2 4 5 8  + 5 9 6 3 0 5 4	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition where appropriate     1	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout  243  x 6  2058	
Concepts to Understand	Place Value Counters 2458 + 596  Show 2458 and 596  Combine the 1s. Exchange ten 1s for a 10 counter.  Combine the 10s. Exchange ten 10s for a 100 counter.  Combine the 10s. Exchange ten 10s for a 1000 counter.  Read final answer Three thousand and fifty-four.	Taking away and exchanging, 2344 – 187 Place value counters  Where's the one hundred and eighty- seven?  Exchange a 10 for ten 1s to create two thousand, three hundred and thirty and fourteen.  Now take away 'seven'.  Exchange a 100 for ten 10s to create two thousand, two hundred, thirteen tens and seven.  Now take away 'eighty'  Now take away 'one hundred'  There are no thousands to take away.	43 x 6 by partitioning  X 40 3 6 240 18  40 x 6 = 240 3 x 6 = 18 43 x 6 = 258  If I know 4 x 6 = 24 the 40 x 60 is ten times bigger.  13 x 16 by partitioning  10 3  10 6  100 + 30 + 60 + 18 = 208  Build tables on counting stick	Grouping using partitioning  196 ÷ 6 If I know 3 x 6 then 30 x 6  196  Chunking up' on a number line  196 ÷ 6 = 32 r 4  Use language of division linked to tables.





	Simple expectations –	Solve addition and subtraction two-step	Solve addition and subtraction two-step	Use place value, known and derived facts to	Use place value, known and derived facts to
	mental strategies or quick	problems in contexts, deciding which	problems in contexts, deciding which	multiply and divide mentally, including:	multiply and divide mentally, including:
	•	operations and methods to use and why	operations and methods to use and why	multiplying by 0 and 1; dividing by 1; multiplying	multiplying by 0 and 1; dividing by 1; multiplying
	notes			together three numbers	together three numbers
				Recognise and use factor pairs and	Recognise and use factor pairs and
l				commutativity in mental calculations	commutativity in mental calculations
	Background knowledge			Recall x and ÷ facts for x tables up to 12 x 12.	Recall x and ÷ facts for x tables up to 12 x 12.

	Addition	Subtraction	Multiplication	Division
Written Methods	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers  243  x.36  7290  1458  8748	Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context $194 \mid 6$ $\frac{3}{19} \cdot \frac{2}{19} \cdot \frac{1}{19} \cdot \frac{1}{19$





Concepts to Understand	Set out the calculation   2 3 4 5 4     In columns.	Set out the calculation in columns  The 1s column: four subtract seven Because seven is greater than four, exchange a 10 for ten 1s. So there are now three 10s and fourteen 1s.  Fourteen 1s subtract seven 1s makes seven 1s - record this.  The 10s column: three subtract eight. Because eight is greater than three, exchange a 100 for ten 10s. So there are now two 100s and thirteen 10s.  Thirteen 10s subtract eight 10s makes five 10s - record this.  The 100s column: two subtract one. Two 100s subtract one 100 makes one 100 - record this.  The 100s column: two subtract one 100 makes one 100 - record this.  The 100s column: two subtract one 100 makes one 100 - record this.  The 10,000s column: there are only five 10000s with nothing to subtract. So record 5.	Grid method linked to formal written method  x 200 40 3 30 6000 1200 90 6 1200 240 18  If I know 4 x 6 then 0.4 x 6 is ten times smaller 0.4 x 0.6 is ten times smaller again.	192 ÷ 6 using place value counters to support written method  Exchange one 100 for ten 10s  19 tens into groups of 6  3 groups so that is 30 x 6, exchange remaining 10 for ten 1s  So 192 ÷ 6 = 32
Simple expectations – mental strategies or quick notes  Background knowledge	Add and subtract numbers mentally with increasingly large numbers	Add and subtract numbers mentally with increasingly large numbers	Multiply and divide numbers mentally drawing upon known facts Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers establish whether a number up to 100 is prime  Recall prime numbers up to 19 know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)	Multiply and divide numbers mentally drawing upon known facts Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000  Recall prime numbers up to 19 know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers



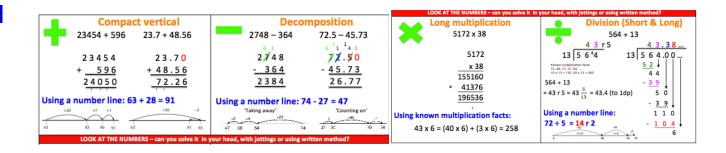
Addition	Subtraction	Multiplication	Division





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Written Methods	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication  5172  x 38  155160  41376  196536	Divide numbers up to 4-digits by a two- digit whole number using the formal written method of short division where appropriate for the context $564 \mid 13$ $Known multiplication facts:$ $13  5  6  4$ $13  43  75  13, 26, 33, 52, 65,$ $564 \mid 13  43  75  43  \frac{5}{13}$
Concepts to Understand			To multiply 5172 by 38 find the sum of 5172 x 30 & 5172 x 8.  5172 x 30: This is the same as 5172 x 3 x 10. Therefore, record a 0 in the 1s column to take care of the 'ten times bigger' and begin to calculate 5182 x 3.  5172 5172 5172 5172 5172 5172 x 38 x 3	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context  564 + 13  4 3 . 3 8  13 5 6 4 . 0 0  5 7 4 . 0 0  13 5 0 4 . 0 0  14 6  = 43 r 5 = 43 $\frac{5}{13}$ = 43.4 (to 1dp)
Simple expectations – mental strategies or quick notes	Perform mental calculations, including with mixed operations and large numbers	Perform mental calculations, including with mixed operations and large numbers	Perform mental calculations, including with mixed operations and large numbers	Perform mental calculations, including with mixed operations and large numbers
Background knowledge				

#### YEAR 6 EXPECTATIONS OF CALCULATIONS:







#### **GLOSSARY OF TERMS:**

**2-digit number**— a number with 2 digits like 23, 45, 12 or 60

**3-digit number** – a number with 3 digits like 123, 542, 903 or 561

Addition facts – knowing that 1+1 = 2 and 1+3 = 4 and 2+5 = 7. Normally we only talk about number facts with totals of 20 and under.

Array - An array is an arrangement of a set of numbers or objects in rows and columns —it is mostly used to show how you can group objects for repeated addition or subtraction.

**Bead String/Bar** – a string with (usually 100) beads on, grouped by colour in tens. The bead string is a good bridge between a number track and a number line as it maintains the cardinality of the numbers whilst beginning to develop the concepts of counting 'spaces' rather than objects.

Bridging – when a calculation causes you to cross a 'ten boundary' or a 'hundred boundary' e.g. 85 + 18 will bridge 100.

**Compact vertical** – the name of the recommended written method for addition whereby the numbers are added in columns, 1s first then 10s and so on. Where the total exceeds 10, the ten 1s are exchanged for a 10 and written below the answer line. Sometimes referred to as 'carrying'.

**Concrete apparatus** – objects to help children count and calculate – these are most often cubes (multilink) but can be anything they can hold and move including Cuisenaire rods, Dienes rods (hundreds, tens and units blocks), straws, Numicon, Place Value counters and much more.

**Count all** – when you add by counting all the items/objects e.g. to add 11 and 5 you would count out 11, then count out 5, then put them together and count them all to get **16**.

**Count on** – when you add (or sometimes subtract) by counting onwards from a given number. E.g. to add 11 and 5 you would count on 5 from 11 i.e. 12, 13, 14, 15, 16

**Decimal number** – a number with a decimal point e.g. 2.34 (said as two point three four)

**Decomposition** – the name of the recommended written method for subtraction whereby the smaller number is subtracted from the larger, 1s first then 10s and so on. Where the subtraction cannot be completed as the second number is larger than the first, a 10 is exchanged for ten 1s to facilitate this. This is the traditional 'borrowing' form of column method, which is different to the 'payback' method.





Dienes Rods (or Base 10) – this is a set of practical equipment that represents the numbers to help children with place value and calculation. The Dienes rods show 1s, 10s, 10os and 10oos as blocks of cubes that children can then combine. Dienes rods do not break up so the child has to 'exchange' them for smaller or larger blocks where necessary.

Difference – the gap between numbers that is found by subtraction e.g. 7-5 can be read as '7 take away 5' or as the 'difference between 7 and 5'

**Dividend** – the number being divided in a calculation

**Divisor** – the smaller number in a division calculation.

**Double** – multiply a number by 2

Efficient Methods – the method(s) that will solve the calculation most rapidly and easily

**Equals** - is worth the same as (be careful not to emphasise the use of = to show the answer)

**Exchanging** – Swapping a '10' for ten '1s' or a '100' for ten '10s' or vice versa (used in addition and subtraction when 'moving' 'ten' or a 'hundred' from its column into the next column and splitting it up). Heavily relied upon for addition and subtraction of larger numbers. Skills in this can be built up practically with objects, then Dienes rods/base 10, then place value counters before relying on a solely written method.

**Expanded Multiplication** – a method for multiplication where each stage is written down and then added up at the end in a column

Factor – a number that divides exactly into another number, without remainder

**Grid method** – a method for multiplying two numbers together involving partitioning and multiplying each piece separately.

**Grouping** – an approach to division where the dividend is split into groups of the size of the divisor and the number of groups created are then counted.

Half - a number, shape or quantity divided into 2 equal parts

**Halve** – divide a number by 2

Integer - a whole number (i.e. one with no decimal point)

Inverse – the opposite operation. For example, addition is the inverse of subtraction and multiplication is the inverse of division.

**Known Multiplication Facts** – times tables and other number facts that can be recalled quickly to support with larger or related calculations e.g. if you know 4x7 then you also know 40 x 70, 4 x 0.7 etc.





Long Division – formal written of division where the remainders are calculated in writing each time (extended version of short division)

**Long Multiplication** – formal written method of column multiplication

Multiple - a number which is an exact product of another number i.e. a number which is in the times table of another number

Number bonds – 2 numbers that add together to make a given total, e.g. 8 and 2 bond to 10 or 73 and 27 bond to 100

Number line – a line either with numbers or without (a blank numberline).

The number line emphasises the continuous nature of numbers and the existence of 'in-between' numbers that are not whole. It is based around the gaps between numbers.

Children use this tool to help them count on or count back for addition of subtraction. As they get older, children will count in 'jumps' on a number line e.g. to add 142 to a number they may 'jump' 100 and then 40 and then 2. The number line is sometimes used in multiplication and division but can be time consuming.

**Number track** – a sequence of numbers, each inside its own square. It is a simplified version of the number line that emphasises the whole numbers.

**Numicon** – practical maths equipment that teaches children the names and values of numbers 1-10 initially but them helps them with early addition, subtraction, multiplication and division. Numicon is useful for showing the real value of a number practically.

**One-Step Calculation** – a calculation involving only one operation e.g. addition. Usually the child must decide what that operation is.

Partition – split up a larger number into parts, such as the hundreds, tens and units e.g. 342 can be partitioned into 300 and 40 and 2

Place Value – the value of a digit created by its position in a number e.g. 3 represents thirty in 234 but three thousand in 3567

**Recombine** – for addition, once you have partitioned numbers into hundreds, tens and units then you have to add then hundreds together, then add the tens to that total, then add the units to that total

Remainder – a whole number left over after a division calculation

**Repeated addition** – repeatedly adding groups of the same size for multiplication

Scaling – an approach to multiplication whereby the number is 'scaled up' by a factor of the multiplier e.g. 4 x 3 means 4 scaled up by a factor of 3.

**Sharing** – an approach to division whereby the dividend is shared out into a given number of groups (like dealing cards)





Short Division - traditional method for division with a single digit divisor (this is a compact version of long division, sometimes called 'bus stop')

Significant digit – the digit in a number with the largest value e.g. in 34 the most significant digit is the 3, as it has a value of '30' and the '4' only has a value of '4'

**Single digit** – a number with only one digit. These are always less than 10.

**Sum** – the total of two or more numbers (it implies addition). Sum should not be used as a synonym for calculation.

**Two-step calculation** - a calculation where two different operations must be applied e.g. to find change in a shop you will usually have to add the individual prices and then subtract from the total amount. Usually the child has to decide what these two operations are and the order in which they should be applied.