

<p><b><u>Number –Place Value</u></b></p> <p><i>Read, Write and Order:</i></p> <ul style="list-style-type: none"> <li>-up to 1,000,000 and beyond (including 2dp).</li> <li>-Round any number up to 1 million to 10,100, 1000, 10,000, 100,000 (including 2dp).</li> <li>-Roman Numerals up to 1000 (M) and recognise years.</li> </ul> <p><i>Counting on and back:</i></p> <ul style="list-style-type: none"> <li>-Forwards/backwards in steps of powers of 10 for any given number up to 1,000,000.</li> </ul> <p><i>Negative Numbers:</i></p> <ul style="list-style-type: none"> <li>-Interpret negative numbers in context, count forwards and backwards with positive and negative numbers through 0.</li> </ul>	<p><b><u>Four Operations (see next page for examples)</u></b></p> <p><i>Addition:</i></p> <ul style="list-style-type: none"> <li>-Add more than 4 digit numbers (using column method).</li> <li>-Practise mental strategies for adding large numbers.</li> </ul> <p><i>Subtraction:</i></p> <ul style="list-style-type: none"> <li>-Subtract more than 4 digit numbers (using column method).</li> <li>-Practise mental strategies for subtracting large numbers.</li> </ul> <p><i>Multiplication:</i></p> <ul style="list-style-type: none"> <li>-Up to 4 digit x 1/2 digit (using Long formal method)</li> <li>-Multiply and divide by 10,100 and 1000.</li> </ul> <p><i>Division:</i></p> <ul style="list-style-type: none"> <li>-Up to 4 digit ÷ 1 digit using formal short method (bus stop).</li> <li>-Leave remainders as R.</li> </ul>
<p><b><u>Measurement</u></b></p> <p><i>Length, Weight &amp; Capacity:</i></p> <ul style="list-style-type: none"> <li>-Add/subtract/covert between - mm,cm,m ,km g, kg and ml, l.</li> </ul> <p><i>Area &amp; Perimeter:</i></p> <ul style="list-style-type: none"> <li>-Find the area and perimeter of compound shapes.</li> </ul> <p><i>Time:</i></p> <ul style="list-style-type: none"> <li>-Tell and write the time from analogue and digital clocks.</li> <li>-Convert between analogue and digital (including 24 hour).</li> </ul> <p><i>Time Facts:</i></p> <ul style="list-style-type: none"> <li>-Understand and recall all time facts.</li> </ul> <p><i>Money:</i></p> <ul style="list-style-type: none"> <li>-Use the four operations to solve problems using money (convert between pounds and pence).</li> </ul>	<p><b><u>Times Tables</u></b></p> <ul style="list-style-type: none"> <li>-ALL TIMES TABLES UP TO 12 x 12.</li> </ul> <p><b><u>Multiples, Factors, Prime, Squared and Cubed numbers</u></b></p> <ul style="list-style-type: none"> <li>-Understand all terms and apply to problem solving.</li> </ul>
<p><b><u>Fractions, Decimals and Percentages</u></b></p> <p><i>Fractions:</i></p> <ul style="list-style-type: none"> <li>-Add/subtract/order/compare with linked denominators. <math>\frac{1}{2} + \frac{1}{4} + \frac{1}{8}</math></li> <li>-Find Equivalent fractions and Simplify.</li> <li>-Convert Mixed Fractions to Improper and vice versa.</li> <li>-Multiply fractions.</li> </ul> <p><i>Percentages:</i></p> <ul style="list-style-type: none"> <li>-Find 10%, 5%, 1% (and multiples) of an amount.</li> </ul> <p><i>Decimals:</i></p> <ul style="list-style-type: none"> <li>-Read, write, order and compare decimals up to 3dp.</li> <li>-Round to 2dp to the nearest whole number.</li> </ul>	<p><b><u>Shape - Properties of Shape</u></b></p> <p><i>Shape 2D/3D:</i></p> <ul style="list-style-type: none"> <li>- Identify 3D shapes, including cubes and other cuboids, from 2D representations.</li> </ul> <p><i>Angles:</i></p> <ul style="list-style-type: none"> <li>-Estimate and compare Acute/ Obtuse/ Reflex/Angles on a Straight Line and in a Whole turn (360).</li> <li>-Draw given angles and measure in degrees using protractor.</li> </ul> <p><b><u>Shape – Position and Direction</u></b></p> <p><i>Co-ordinates:</i></p> <ul style="list-style-type: none"> <li>-Top two quadrants.</li> </ul> <p><i>Translation:</i></p> <ul style="list-style-type: none"> <li>-Translate the shape from point a to point b.</li> </ul> <p><i>Rotation:</i></p> <ul style="list-style-type: none"> <li>-Rotate shapes 90,180, 270 degrees.</li> </ul> <p><i>Symmetry &amp; Reflection:</i></p> <ul style="list-style-type: none"> <li>-Identify lines of symmetry in 2D shapes.</li> <li>-Reflection in x and y axis (horizontal, vertical and diagonal).</li> </ul>
	<p><b><u>Statistics</u></b></p> <ul style="list-style-type: none"> <li>-Solve comparison and difference problems using information presented on a line graph.</li> <li>- Read and interpret scales (2, 5, and 10).</li> <li>-Interpret information in tables including timetables.</li> <li>-Begin to decide which representations of data are most appropriate.</li> <li>-Find the Mean, Median, Mode and Range of a set of data.</li> </ul>

# Year 5 Methods

	5	2	0	9
+	3	1	9	2
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	8	4	0	1
		1	1	

Column Addition

	T	Th	Th	H	T	O
		7	<del>4</del> 5	<del>1</del> 5	<del>2</del> 3	<del>1</del> 2
-		2	2	6	2	3
<hr/>						
		5	2	9	0	9
<hr/>						

Column Subtraction

- Multiply the units.
- Multiply the tens.
- Multiply the hundreds.
- Add together the three separate answers.

Th	H	T	U
	5	4	3
		×	4
<hr/>			
		1	2 (4 × 3)
	1	6	0 (4 × 40)
2	0	0	0 (4 × 500)
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2	1	7	2

3 digit x 1 digit

Formal Long Multiplication

3 digit ÷ 1 digit

Formal Short Division

(Bus stop)

186 ÷ 6 =

	0	3	1	
6		1	8	6
		18		
		3 × 6 = 18		
			6	
			1 × 6 = 6	

no groups of 6 can be made

# Year 5 Vocabulary

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## FRACTIONS, DECIMALS, PERCENTAGES, RATIO AND PROPORTION

part, equal parts  
fraction, **proper/improper fraction**  
**mixed number**  
numerator, denominator  
**equivalent, reduced to, cancel**  
one whole  
half, quarter, eighth  
third, sixth, **ninth, twelfth**  
fifth, tenth, **twentieth, hundredth**  
proportion, **ratio**  
in every, for every  
**to every, as many as**  
decimal, decimal fraction  
decimal point, decimal place  
**percentage, per cent, %**

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## ADDITION AND SUBTRACTION

add, addition, more, plus, increase  
sum, total, altogether  
score  
double, near double  
how many more to make...?  
subtract, subtraction, take (away), minus, decrease  
leave, how many are left/left over?  
difference between  
half, halve  
how many more/fewer is... than...?  
how much more/less is...?  
equals, sign, is the same as  
tens boundary, hundreds boundary  
**units boundary, tenths boundary**  
inverse

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## Handling data

count, tally, sort, vote  
survey, questionnaire  
data, **database**  
graph, block graph, **line graph**  
pictogram,  
represent  
group, set  
list, chart, bar chart, **bar line chart**  
tally chart

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table, frequency table  
Carroll diagram, Venn diagram  
label, title, axis, axes  
diagram  
most popular, most common  
least popular, least common  
**mode, range**  
**maximum/minimum value**  
classify, **outcome**

## PROBABILITY

**fair, unfair**  
**likely, unlikely, likelihood**  
**certain, uncertain**  
**probable, possible, impossible**  
**chance, good chance**  
**poor chance, no chance**  
**risk, doubt**