

Year 5 Mathematics Parents Information Support Booklet



Block 1– Place Value to within 1 million-Year 5 Autumn

Number and Place Value		Knowledge Organiser														
Key Vocabulary	Compare and Order															
millions	equals	greater than	less than													
thousands	$26 + 38 = 8 \times 8$	$23\ 873 > 8256$	$901\ 198 < 1\ 091\ 098$													
hundreds	Both calculations have the value 64.	The number on the left has 2 ten thousands and the number on the right has 0 ten thousands.	The number on the right has 1 million and the number on the left has 0 millions.													
tens																
ones																
zero																
place value	smallest	898	6735	6835												
greater than				7019												
less than				9002												
order				11 235												
round				greatest												
rounded	Negative Numbers															
negative number																
partition digit	Counting in Powers of 10															
interval	Counting in 10s	Counting in 100s														
sequence	<table border="1"> <tr> <td>365</td> <td>375</td> <td>385</td> <td>395</td> <td>405</td> <td>415</td> </tr> </table> <p>The tens increase until 9 tens becomes one more hundred and 0 tens.</p>	365	375	385	395	405	415	<table border="1"> <tr> <td>2841</td> <td>2941</td> <td>3041</td> <td>3141</td> <td>3241</td> <td>3341</td> </tr> </table> <p>The hundreds increase until 9 hundreds becomes one more thousand and 0 hundreds.</p>		2841	2941	3041	3141	3241	3341	
365	375	385	395	405	415											
2841	2941	3041	3141	3241	3341											
linear sequence	Counting in 10 000s	Counting in 100 000s														
	<table border="1"> <tr> <td>276 109</td> <td>286 109</td> <td>296 109</td> <td>306 109</td> </tr> </table> <p>The ten thousands increase until 9 ten thousands become one more hundred thousand and 0 ten thousands.</p>	276 109	286 109	296 109	306 109	<table border="1"> <tr> <td>2 972 151</td> <td>3 072 151</td> <td>3 172 151</td> <td>3 272 151</td> </tr> </table> <p>The hundred thousands increase until 9 hundred thousands becomes one more million and 0 hundred thousands.</p>		2 972 151	3 072 151	3 172 151	3 272 151					
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Number and Place Value		Knowledge Organiser																																																							
Numbers to One Million																																																									
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		<p>CCXLVIII = 248 DCCLXXXIV = 784 MMXIX = 2019</p>																																																							

Block 2– Addition and Subtraction

Addition and Subtraction		Knowledge Organiser	
Key Vocabulary	Addition	Subtraction	
Add	Place Value Grid: $3274 + 5601 = 8875$	Place Value Grid: $35\ 727 - 6313 = 29\ 414$	
Total			
Make			2 ten thousands left
Plus			5 thousands – 6 thousands cannot be done. Exchange ten thousand for ten thousands becoming 15 thousands – 6 thousands = 9 thousands
Sum			7 hundreds – 3 hundreds = 4 hundreds
More		2 tens – 1 ten = 1 ten	
Altogether			7 ones – 3 ones = 4 ones
Difference			
Subtract			7 ones – 3 ones = 4 ones
Less			
Minus			7 ones – 3 ones = 4 ones
Take away			
Column addition			7 ones – 3 ones = 4 ones
Column subtraction	Column Method	Column Method	
Estimate	Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands, ten thousands and/or as required.	Starting with the ones, subtract each column in turn. Exchange tens, hundreds, thousands and/or ten thousands as required.	
Inverse operation			
Number facts			
Place value			
Complex			

Addition and Subtraction		Knowledge Organiser						
Estimate and Approximate	Inverse Operations							
Rounding to Estimate	Use the inverse to check:							
$41\ 635 + 7386 = 49\ 021$	$53\ 476$	To check $53\ 476 - 32\ 732 = 20\ 744$ use $32\ 732 + 20\ 744 = 53\ 476$						
Round to ten:	$32\ 732$ $20\ 744$							
$41\ 630 + 7380 = 49\ 010$		Start with a number, subtract 409 and double. I end with 6264. To find the starting number use the inverse: halve, then add 409. Half of 6264 = 3132. $3132 + 409 = 3541$. The starting number was 3541.						
$41\ 630 + 7390 = 49\ 020$								
$41\ 640 + 7390 = 49\ 030$								
Rounding is not as accurate when both numbers are rounded up. A better estimate comes from "rounding" one down and one up.	Multistep Problems							
Estimating on a Number Line	Using a Bar Model							
	The sum of two numbers is 25 567. The difference is 1875.							
The arrow is about $\frac{3}{4}$ of the way across the line so it is 40 000.	Subtract 1875 from 25 567 = 23 692. Halve 23 692 to find smaller number = 11 846. Add 1875 to find larger number = 13 721.							
	<table border="1"> <tr> <td>£20</td> <td>£20 is used to buy 2 books costing £3.75 and £8.49.</td> </tr> <tr> <td>£3.75 £8.49 ?</td> <td></td> </tr> <tr> <td>£12.24 £7.76</td> <td>How much change is given?</td> </tr> </table>	£20	£20 is used to buy 2 books costing £3.75 and £8.49.	£3.75 £8.49 ?		£12.24 £7.76	How much change is given?	
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£12.24 £7.76	How much change is given?							
	$£3.75 + £8.49 = £12.24$ $£20.00 - £12.24 = £7.76$							

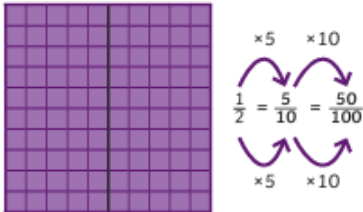

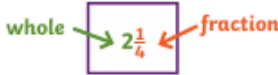



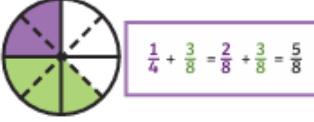
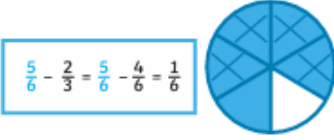
Block 3– Multiplication and Division A

Multiplication and Division		Knowledge Organiser	
Key Vocabulary	Factors	Prime Numbers	
multiply	A factor is a number that divides into another number exactly, without leaving a remainder.		
groups of	<p>A common factor is a factor of 2 or more numbers.</p>		
lots of			
times			
divide			
share			
remainder	The factors of 20 are 1, 2, 4, 5, 10 and 20. The factor pairs are: 1 and 20 2 and 10 4 and 5		
factor	Squared ² and Cubed ³ Numbers		Related Calculations
multiple			$8 \times 9 = 72$ $9 \times 8 = 72$ $80 \times 9 = 720$ $90 \times 8 = 720$
product			$2^2 = 4$ $2^3 = 8$ $5^2 = 25$ $5^3 = 125$ $2 \times 2 = 4$ $2 \times 2 \times 2 = 8$ $5 \times 5 = 25$ $5 \times 5 \times 5 = 125$

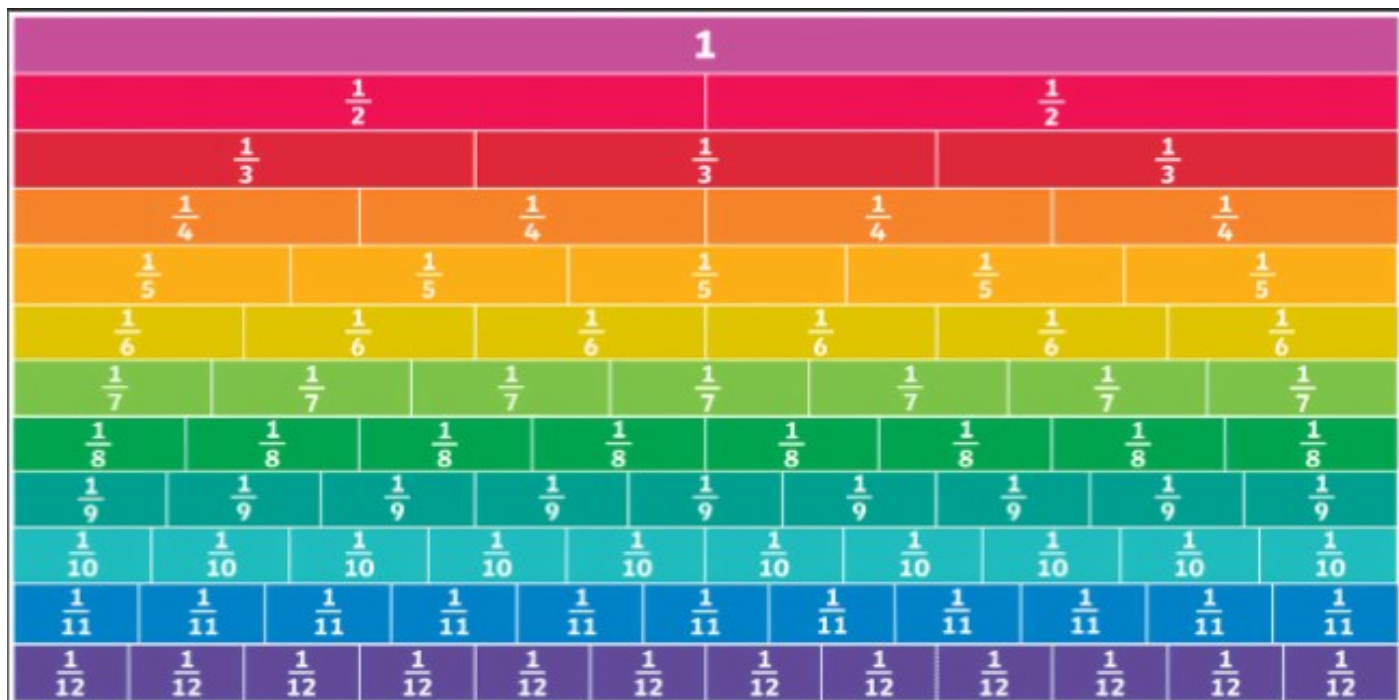
Vocabulary and home learning Keep those tables facts snappy!

- Practise skip counting in different but related multiples.
- Zero, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30
- Zero 30 60 90 120 150 180 210 240 270 300
- Practise using a known fact and place value to grow it -
- $8 \times 9 = 72$ so $80 \times 9 = 720$ and $800 \times 9 = 7,200$
- Learn squared and cubed numbers up to the 12th multiple off by heart.
- Learn and use vocabulary of multiplication : factor multiple, product, prime number.
- Learn and use vocabulary of \div : dividend, quotient, divisor remainder. Practise formal column layout and short division.

Block 4– Fractions A

Fractions		Knowledge Organiser
Key Vocabulary	Equivalent Fractions	Compare and Order Fractions
numerator	To find equivalent fractions, we multiply or divide the numerator and denominator by the same number.	We can compare and order fractions by using common denominators.
denominator		
unit fraction		
non-unit fraction		
whole		
equivalent	Mixed Numbers	Improper Fractions
mixed number	Mixed numbers contain a whole number and a fraction. 	An improper fraction has a numerator which is greater than or equal to the denominator. $\frac{5}{3}$
improper fraction	Convert an Improper Fraction to a Mixed Number	Convert a Mixed Number to an Improper Fraction
simplest form	$\frac{9}{4}$ $9 \div 4 = 2r1$ $2\frac{1}{4}$ Divide the numerator by the denominator. This shows you the whole number and the fraction.	Multiply the whole by the denominator to make an improper fraction. $2\frac{5}{6} = \frac{12}{6} + \frac{5}{6} = \frac{17}{6}$ Add the fractions together.
multiple		
common denominator	Adding and Subtracting Fractions	
common numerator	To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator.	
		
		

Vocabulary and home learning



Count in equivalent fractions

Weblink: [Equivalent fractions - Maths - Learning with BBC Bitesize](#)

Spring Block 1 Multiplication and Division B

Multiplication and Division		Knowledge Organiser																																																																								
Short Multiplication	Long Multiplication																																																																									
<p style="text-align: center;">$2543 \times 7 = 17\ 801$</p> <table style="margin: 10px auto; border-collapse: collapse;"> <tr><td></td><td>2</td><td>5</td><td>4</td><td>3</td><td></td></tr> <tr><td>×</td><td></td><td></td><td></td><td>7</td><td></td></tr> <tr style="border-top: 1px solid black;"><td>1</td><td>7</td><td>8</td><td>0</td><td>1</td><td></td></tr> <tr><td>1</td><td>3</td><td>3</td><td>2</td><td></td><td></td></tr> </table> <div style="border: 1px solid orange; padding: 5px; margin-top: 10px; width: fit-content;"> <p>Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.</p> </div>		2	5	4	3		×				7		1	7	8	0	1		1	3	3	2			<p style="text-align: center;">$2543 \times 67 = 170\ 381$</p> <table style="margin: 10px auto; border-collapse: collapse;"> <tr><td></td><td>2</td><td>5</td><td>4</td><td>3</td><td></td></tr> <tr><td>×</td><td></td><td></td><td>6</td><td>7</td><td></td></tr> <tr style="border-top: 1px solid black;"><td>1</td><td>7</td><td>8</td><td>0</td><td>1</td><td></td></tr> <tr><td>1</td><td>3</td><td>3</td><td>2</td><td></td><td></td></tr> <tr style="border-top: 1px solid black;"><td>1</td><td>5</td><td>2</td><td>5</td><td>8</td><td>0</td></tr> <tr><td>1</td><td>3</td><td>2</td><td>1</td><td></td><td></td></tr> <tr style="border-top: 1px solid black;"><td>1</td><td>7</td><td>0</td><td>3</td><td>8</td><td>1</td></tr> <tr><td>1</td><td>1</td><td></td><td></td><td></td><td></td></tr> </table> <div style="border: 1px solid orange; padding: 5px; margin-top: 10px; width: fit-content;"> <p>Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).</p> </div>			2	5	4	3		×			6	7		1	7	8	0	1		1	3	3	2			1	5	2	5	8	0	1	3	2	1			1	7	0	3	8	1	1	1				
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Vocabulary and home learning

Lots of children need to use the expanded method alongside the short and long multiplication method as they develop confidence.

Please ask your child's teacher which method they are currently using.

Use low digits as children in beginning stages and take care with tidy layout with 1 digit per square. It may help children to write the place value column names above the calculation.

Block 2 Fractions B

Fractions		Knowledge Organiser						
Add Fractions Where the Total is Greater Than 1 $\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = \frac{4}{8} + \frac{6}{8} + \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$		Subtract from a Mixed Number $1\frac{2}{3} - \frac{2}{9} = 1\frac{6}{9} - \frac{2}{9} = 1\frac{4}{9}$ <table border="1"> <thead> <tr> <th>starting number</th> <th>find the equivalent fraction</th> <th>subtract</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	starting number	find the equivalent fraction	subtract			
starting number	find the equivalent fraction	subtract						
Add Mixed Numbers $1\frac{1}{4} + \frac{3}{8} = 1\frac{2}{8} + \frac{3}{8} = 1 + \frac{5}{8} = 1\frac{5}{8}$ $1\frac{1}{4} + \frac{3}{8} = \frac{5}{4} + \frac{3}{8} = \frac{10}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$								
Multiply Unit Fractions by an Integer $\frac{1}{3} \times 5 = \frac{5}{3}$	Multiply Non-Unit Fractions by an Integer $2 \times \frac{4}{9} = \frac{8}{9}$	Subtract Two Mixed Numbers $2\frac{3}{4} - 1\frac{5}{8} = 1\frac{1}{8}$ <p>$2 - 1 = 1$ $\frac{3}{4} - \frac{5}{8} = \frac{1}{8}$</p>						
Multiply Mixed Numbers by Integers <div style="border: 1px solid black; padding: 5px; width: fit-content;"> Convert to an improper fraction and multiply the numerator by the integer. </div> $2\frac{1}{4} \times 2 = \frac{9}{4} \times 2 = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-top: 10px;"> Use repeated addition. </div> $2\frac{1}{4} \times 2 = 2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$		Subtract from a Mixed Number - Breaking the Whole $2\frac{1}{4} - \frac{3}{8} = 2\frac{2}{8} - \frac{3}{8} = 1\frac{10}{8} - \frac{3}{8} = 1\frac{7}{8}$						

Vocabulary and home learning

Practise the vocabulary of fractions:

Improper fraction (numerator is bigger than the denominator)

Mixed fraction whole number and a fraction e.g. five and a half.

Unitary fraction (with a 1 on the top)

Non-unitary fraction (with any number other than 1 on top)

Weblink [bbc adding and subtracting fractions - Search Videos \(bing.com\)](https://www.bing.com/search?q=bbc+adding+and+subtracting+fractions)

! Please see your child's teacher to find out the exact stage that your child is on. They will be able to suggest/supply the best support work for your child's current stage of understanding.

Block 3 Decimals and Percentages

Decimals					Knowledge Organiser																								
Multiplying and Dividing by 10, 100 and 1000					Rounding Decimals																								
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<table border="1"> <thead> <tr> <th>Tens</th> <th>Ones</th> <th>Tenths</th> <th>Hundredths</th> <th>Thousandths</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>8</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0</td> <td>0</td> <td>3</td> <td>8</td> </tr> <tr> <td>3</td> <td>8</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Tens	Ones	Tenths	Hundredths	Thousandths	3	8					0	0	3	8	3	8				Percentage and Decimal Equivalents				
Tens	Ones	Tenths	Hundredths	Thousandths																									
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	0	0	3	8																									
3	8																												
Adding and Subtracting Decimals					<table border="1"> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>$50\% = \frac{50}{100} = \frac{1}{2} = 0.5$</td> <td>$25\% = \frac{25}{100} = \frac{1}{4} = 0.25$</td> <td>$10\% = \frac{10}{100} = \frac{1}{10} = 0.1$</td> <td>$40\% = \frac{40}{100} = \frac{2}{5} = 0.4$</td> </tr> </tbody> </table>									$50\% = \frac{50}{100} = \frac{1}{2} = 0.5$	$25\% = \frac{25}{100} = \frac{1}{4} = 0.25$	$10\% = \frac{10}{100} = \frac{1}{10} = 0.1$	$40\% = \frac{40}{100} = \frac{2}{5} = 0.4$												
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$0.8 + 0.001 = 0.801$					Crossing the Whole																								
$1.031 - 0.23 = 0.801$					<table border="1"> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>$20\% = \frac{20}{100} = \frac{1}{5} = 0.2$</td> <td>$1\% = \frac{1}{100} = 0.01$</td> <td>$70\% = \frac{70}{100} = \frac{7}{10} = 0.7$</td> </tr> </tbody> </table>								$20\% = \frac{20}{100} = \frac{1}{5} = 0.2$	$1\% = \frac{1}{100} = 0.01$	$70\% = \frac{70}{100} = \frac{7}{10} = 0.7$														
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$0.4005 + 0.4005 = 0.801$					$0.82 + 0.63 = 1.45$																								
					$2.531 - 0.6 = 1.931$																								

Vocabulary and home learning:

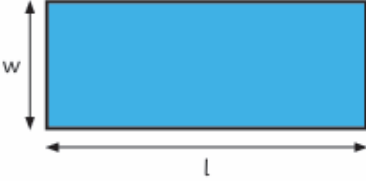
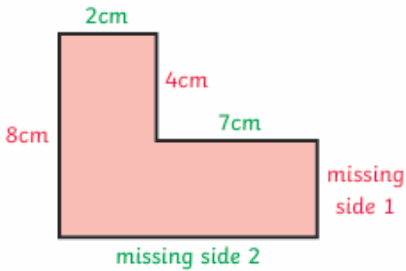

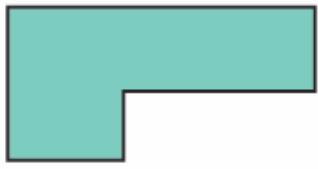

[What are percentages? - BBC Bitesize](#)

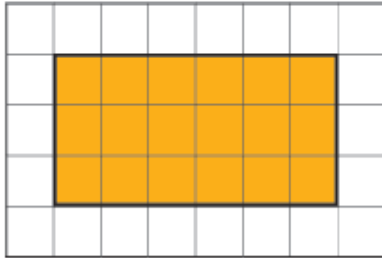
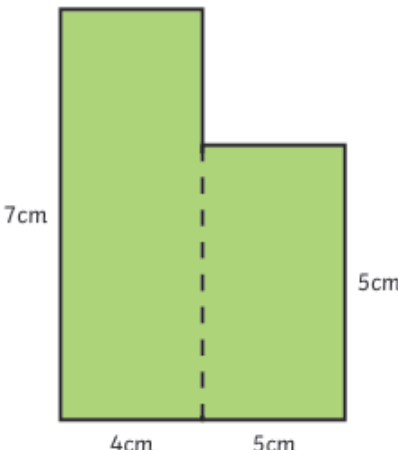
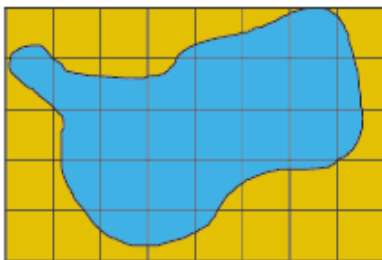


[KS2 Maths: Calculate Percentages with The Worst Witch - BBC Teach](#)

Use a place value grid to practise multiplying and dividing decimal numbers and whole numbers (integers)


Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

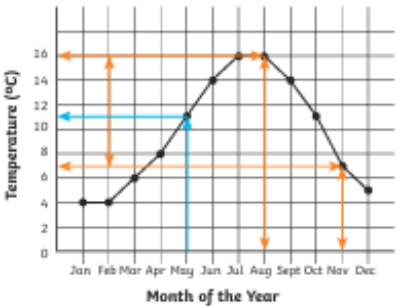
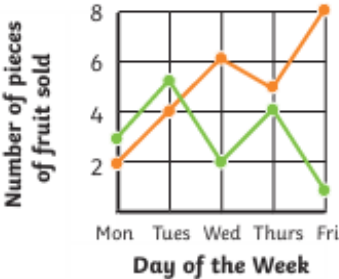

Spring Block 4 - Perimeter and Area

Perimeter and Area		Knowledge Organiser
Key Vocabulary	Measure Perimeter	Calculate Perimeter
metre	Measure the perimeter of a rectangle: 	Calculate the missing sides of this rectilinear shape to find the perimeter: 
kilometre		
perimeter	Measure the length (l) and width (w). $\text{Perimeter} = l + w + l + w$ or $(l + w) \times 2$	* This shape is not drawn to the dimensions specified. $\text{Missing side 1} + 4\text{cm} = 8\text{cm}$, so $\text{missing side 1} = 4\text{cm}$. $\text{Missing side 2} = 2\text{cm} + 7\text{cm} = 9\text{cm}$
length	Measure the perimeter of regular shapes: Measure the length (l) and count the number of sides (s) on the shape.  $\text{Perimeter} = l \times s$	
width	Measure the perimeter of irregular shapes: 	$\text{Perimeter} = \text{sum of all sides} =$ $2\text{cm} + 4\text{cm} + 7\text{cm} + 4\text{cm} + 9\text{cm} + 8\text{cm} = 34\text{cm}$
rectangle	Measure the length of each side and add them together.	
rectilinear		
dimensions		
		

Length and Perimeter		Knowledge Organiser
Area of Rectangles	Area of Compound Shapes	Area of Irregular Shapes
The area of a rectangle on a grid: 	To find the area of a compound shape, divide the shape into rectangles with known dimensions: 	To find the area of an irregular shape, find the number of whole squares and part squares. 
Multiply the length \times width $= 6 \times 3 = 18$ squares. The area of a rectangle = length (l) \times width (w). 	$\text{Area} = 7\text{cm} \times 4\text{cm} + 5\text{cm} \times 5\text{cm}$ $= 28\text{cm}^2 + 25\text{cm}^2$ $= 53\text{cm}^2$	Whole squares = 10 Part squares = 22 Estimate of area = whole squares + half part squares $= 10\text{cm}^2 + 11\text{cm}^2 = 21\text{cm}^2$
		*There are other ways to estimate the area of irregular shapes.

Spring Block 5 Statistics

Statistics		Knowledge Organiser																					
Key Vocabulary	Reading and Understanding Tables	Completing Tables																					
axis	<p>A table to show ticket prices at a local cinema.</p> <table border="1"> <thead> <tr> <th>Ticket Type</th> <th>Weekday Price</th> <th>Weekend Price</th> </tr> </thead> <tbody> <tr> <td>Adult</td> <td>£6</td> <td>£7.50</td> </tr> <tr> <td>Child</td> <td>£4</td> <td>£4.50</td> </tr> <tr> <td>Student</td> <td>£5.50</td> <td>£6</td> </tr> </tbody> </table> <p>In order to understand the data presented in a table, you must read the table's title and the headings. Remember to always look at the heading that each piece of information falls under.</p>	Ticket Type	Weekday Price	Weekend Price	Adult	£6	£7.50	Child	£4	£4.50	Student	£5.50	£6	Here is a table showing the favourite drink flavours of some children.									
Ticket Type		Weekday Price	Weekend Price																				
Adult		£6	£7.50																				
Child		£4	£4.50																				
Student		£5.50	£6																				
continuous data		<table border="1"> <thead> <tr> <th></th> <th>Boys</th> <th>Girls</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Orange</td> <td>8</td> <td></td> <td>18</td> </tr> <tr> <td>Blackcurrant</td> <td></td> <td>6</td> <td></td> </tr> <tr> <td>Total</td> <td>15</td> <td></td> <td></td> </tr> </tbody> </table>			Boys	Girls	Total	Orange	8		18	Blackcurrant		6		Total	15						
		Boys	Girls	Total																			
Orange		8		18																			
Blackcurrant			6																				
Total		15																					
horizontal		To find how many boys voted for blackcurrant, look at the total number of boys who voted and subtract the number of votes for orange.																					
data		To find how many girls voted for orange, look at the total number of votes for orange and subtract the number of votes from boys.																					
interpret		To find the total number of votes for blackcurrant, the total number of girls or the total number of voters, simply add up the values from the appropriate row or column.																					
label																							
line graph																							
maximum value																							
minimum value																							
pattern																							
predict																							
relationship																							
represent																							
scale																							
survey																							
table	Timetables																						
tally	Here is a bus timetable:																						
timetable	<table border="1"> <thead> <tr> <th colspan="4">Three different buses</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Bus stop locations</td> <td>Mill Road</td> <td>0726</td> <td></td> <td>0842</td> </tr> <tr> <td>High Street</td> <td>0729</td> <td>0803</td> <td></td> </tr> <tr> <td>Pitsmoor Road</td> <td>0759</td> <td>0833</td> <td></td> </tr> <tr> <td>Fulwood</td> <td>0845</td> <td>0919</td> <td>0946</td> </tr> </tbody> </table>		Three different buses				Bus stop locations	Mill Road	0726		0842	High Street	0729	0803		Pitsmoor Road	0759	0833		Fulwood	0845	0919	0946
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vertical	The bus starts at this time and location.																						
x-axis	The bus does not stop here.																						
y-axis	The bus terminates at this time and location.																						
																							

Statistics		Knowledge Organiser																			
Read and Interpret Line Graphs	Draw Line Graphs																				
Here is a line graph showing the average temperature for each month.	Here is a table showing the number of different types of fruit sold each day.																				
<p>The y-axis shows temperature in intervals of 2°C on a scale of 0°C to 16°C.</p> <p>The points show the average temperature for each month.</p>	<table border="1"> <thead> <tr> <th></th> <th>Bananas</th> <th>Apples</th> </tr> </thead> <tbody> <tr> <td>Mon</td> <td>2</td> <td>3</td> </tr> <tr> <td>Tues</td> <td>4</td> <td>5</td> </tr> <tr> <td>Wed</td> <td>6</td> <td>2</td> </tr> <tr> <td>Thurs</td> <td>5</td> <td>4</td> </tr> <tr> <td>Fri</td> <td>8</td> <td>1</td> </tr> </tbody> </table>		Bananas	Apples	Mon	2	3	Tues	4	5	Wed	6	2	Thurs	5	4	Fri	8	1		
	Bananas	Apples																			
Mon	2	3																			
Tues	4	5																			
Wed	6	2																			
Thurs	5	4																			
Fri	8	1																			
 <p>The x-axis shows the months of the year.</p>	<p>This graph can be used to represent the data from the table.</p> 																				
Use Line Graphs to Solve Problems																					
<p>To find the average temperature in May, follow the arrow up from May and across to the temperature. As this is halfway between 10°C and 12°C, the average temperature in May is 11°C.</p> <p>To find the difference between the average temperatures in August and in November, find the temperature for each month and calculate the difference between the two. The shape of the line graph can show how the temperature changed. The average temperature falls 9°C from August to November.</p>	<p>Mark each point for the number of bananas sold each day and join each point with a line.</p> <p>Mark each point for the number of apples sold each day and join each point with a line.</p>																				
																					

Summer Block 1 Shape

Properties of Shape

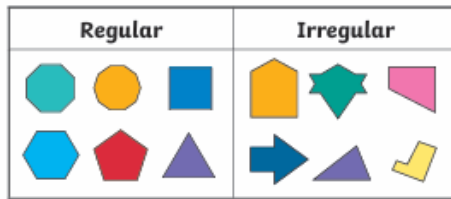
Knowledge Organiser

Key Vocabulary

angle
right angle
acute
obtuse
reflex
protractor
horizontal
vertical
parallel
perpendicular
polygon
regular
irregular
two-dimensional
three-dimensional
flat face
curved surface
edge
curved edge
vertex
apex



Regular and Irregular Polygons



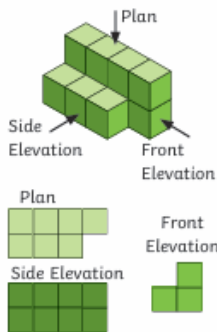
A polygon is any two-dimensional shape formed with straight lines.

In a regular polygon, all the sides and angles are equal.

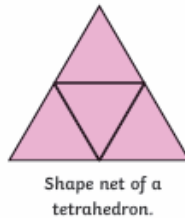
In an irregular polygon, the sides and angles are not equal.

Representations

Cube models can be drawn as 2D representations using different elevations.



A shape net is a 2D drawing of an unfolded 3D shape. When you are drawing or reasoning about shape nets, think carefully about where the edges of the faces meet.



Properties of 3D Shapes

Name	Surfaces		Edges		Vertices	Picture
	Flat	Curved	Flat	Curved		
cube	6	0	12	0	8	
cuboid	6	0	12	0	8	
square-based pyramid	5	0	8	0	5	
tetrahedron	4	0	6	0	4	
triangular prism	5	0	9	0	6	
pentagonal prism	7	0	15	0	10	
hexagonal prism	8	0	18	0	12	
octagonal prism	10	0	24	0	16	
octahedron	8	0	12	0	6	



A cone has an apex. This is because a vertex is the point where two straight edges meet and a cone has no straight edges.

Properties of Shape

Knowledge Organiser

Identifying Angles

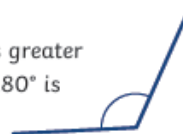
Acute Angles

Any angle that measures less than 90° is called an **acute** angle.



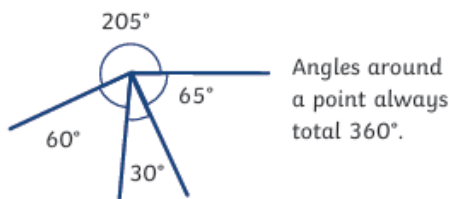
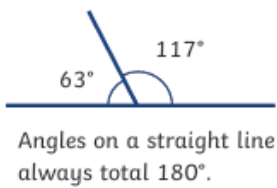
Obtuse Angles

Any angle that measures greater than 90° and less than 180° is called an **obtuse** angle.



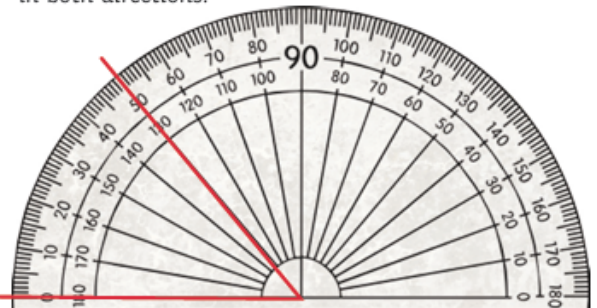
Reflex Angles

Any angle that measures greater than 180° is called a **reflex** angle.



Measuring and Drawing Angles

To measure angles, we use a protractor. Look carefully at how the numbers on the scale count from 0° to 180° in both directions.



Multiples of 90° can be used as descriptions of a turn.



$\frac{1}{4}$ turn - 90°



$\frac{1}{2}$ turn - 180°

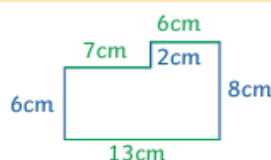


$\frac{3}{4}$ turn - 270°



1 turn - 360°

Using Properties of Rectangles

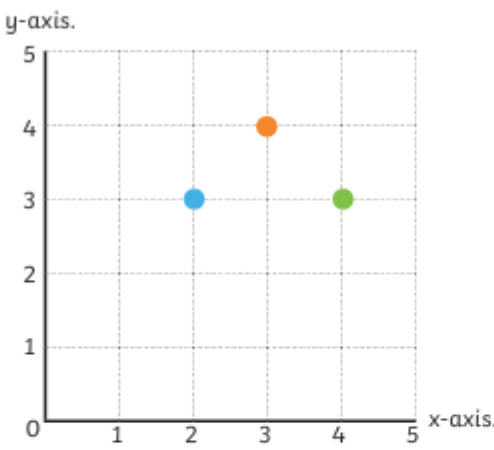




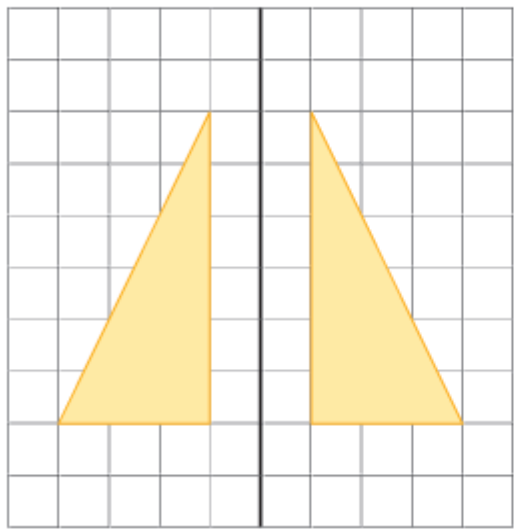
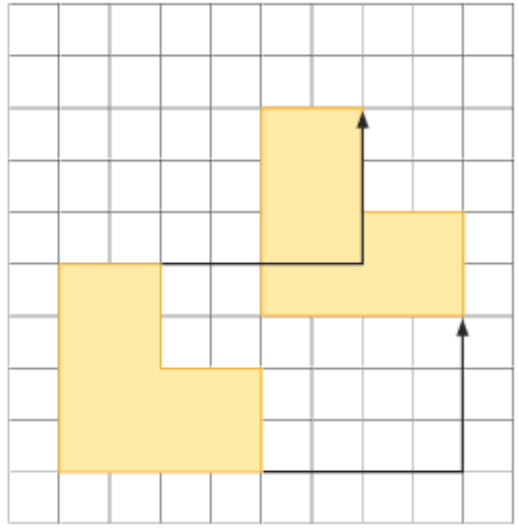

$$6\text{cm} + 2\text{cm} = 8\text{cm}$$

$$7\text{cm} + 6\text{cm} = 13\text{cm}$$



Summer Block 2 Position and Direction

Position and Direction	Knowledge Organiser	
Key Vocabulary		
coordinate	 <p>Coordinates are a useful way to locate a position on a map or grid.</p> <p>The numbers across the horizontal line of the grid are on the x-axis.</p> <p>The numbers on the vertical line of the grid are on the y-axis.</p> <p>We always read or write the number on the x-axis before the y-axis.</p> <p>The x and y position are written in brackets with a comma.</p> <p>The coordinate of the orange spot is (3, 4).</p>	
quadrant		
x-axis		
y-axis		
reflection		
mirror line		
translation		<p>To help you remember which point to read or write first, simply remember to move 'along the corridor and up the stairs'.</p> <p>In other words, move on the x-axis and then move on the y-axis.</p> 
horizontal		
vertical		
		

Position and Direction	Knowledge Organiser	
Reflection	Translation	
<p>A shape is reflected when it is flipped over a mirror line.</p> <p>The reflected image is congruent to the original. This means that the measurements of the sides and angles have not changed.</p> <p>Each point of the reflected shape is the same distance from the mirror line as the original shape.</p>	<p>In maths, translation means moving an object on a grid. The object is moved without changing the size, turning or reflecting it.</p> <p>When translating an object on a grid, it can move up or down, left or right.</p>	
		
		

Summer Block 3 Decimals

Decimals		Knowledge Organiser												
Key Vocabulary	Tenths, Hundredths and Thousandths	Order and Compare Numbers with Three Decimal Places												
tenths		<table border="1"> <tr> <th>Ones</th> <th>Tenths</th> <th>Hundredths</th> <th>Thousandths</th> </tr> <tr> <td></td> <td>1/10, 1/10</td> <td>1/100</td> <td>1/1000, 1/1000</td> </tr> <tr> <td>0</td> <td>.</td> <td>2</td> <td>1 3</td> </tr> </table>	Ones	Tenths	Hundredths	Thousandths		1/10, 1/10	1/100	1/1000, 1/1000	0	.	2	1 3
Ones	Tenths	Hundredths	Thousandths											
	1/10, 1/10	1/100	1/1000, 1/1000											
0	.	2	1 3											
hundredths		<table border="1"> <tr> <th>Ones</th> <th>Tenths</th> <th>Hundredths</th> <th>Thousandths</th> </tr> <tr> <td>1</td> <td></td> <td>1/100, 1/100</td> <td>1/1000, 1/1000</td> </tr> <tr> <td>1</td> <td>.</td> <td>0</td> <td>2 2</td> </tr> </table>	Ones	Tenths	Hundredths	Thousandths	1		1/100, 1/100	1/1000, 1/1000	1	.	0	2 2
Ones	Tenths	Hundredths	Thousandths											
1		1/100, 1/100	1/1000, 1/1000											
1	.	0	2 2											
decimal tenths		<table border="1"> <tr> <th>Ones</th> <th>Tenths</th> <th>Hundredths</th> <th>Thousandths</th> </tr> <tr> <td>1</td> <td>1/10</td> <td></td> <td>1/1000, 1/1000</td> </tr> <tr> <td>2</td> <td>.</td> <td>1</td> <td>0 3</td> </tr> </table>	Ones	Tenths	Hundredths	Thousandths	1	1/10		1/1000, 1/1000	2	.	1	0 3
Ones	Tenths	Hundredths	Thousandths											
1	1/10		1/1000, 1/1000											
2	.	1	0 3											
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Ones	Tenths	Hundredths	Thousandths											
1		1/100, 1/100	1/1000, 1/1000											
1	.	0	2 2											
decimal equivalents		<table border="1"> <tr> <th>Ones</th> <th>Tenths</th> <th>Hundredths</th> <th>Thousandths</th> </tr> <tr> <td>1</td> <td>1/10</td> <td></td> <td>1/1000, 1/1000</td> </tr> <tr> <td>2</td> <td>.</td> <td>1</td> <td>0 3</td> </tr> </table>	Ones	Tenths	Hundredths	Thousandths	1	1/10		1/1000, 1/1000	2	.	1	0 3
Ones	Tenths	Hundredths	Thousandths											
1	1/10		1/1000, 1/1000											
2	.	1	0 3											
part-whole model		<table border="1"> <tr> <th>Ones</th> <th>Tenths</th> <th>Hundredths</th> <th>Thousandths</th> </tr> <tr> <td>1</td> <td>1/10</td> <td></td> <td>1/1000, 1/1000</td> </tr> <tr> <td>2</td> <td>.</td> <td>1</td> <td>0 3</td> </tr> </table>	Ones	Tenths	Hundredths	Thousandths	1	1/10		1/1000, 1/1000	2	.	1	0 3
Ones	Tenths	Hundredths	Thousandths											
1	1/10		1/1000, 1/1000											
2	.	1	0 3											
rounding		<table border="1"> <tr> <th>Ones</th> <th>Tenths</th> <th>Hundredths</th> <th>Thousandths</th> </tr> <tr> <td>1</td> <td>1/10</td> <td></td> <td>1/1000, 1/1000</td> </tr> <tr> <td>2</td> <td>.</td> <td>1</td> <td>0 3</td> </tr> </table>	Ones	Tenths	Hundredths	Thousandths	1	1/10		1/1000, 1/1000	2	.	1	0 3
Ones	Tenths	Hundredths	Thousandths											
1	1/10		1/1000, 1/1000											
2	.	1	0 3											
decimal point		Decimal Numbers as Fractions												
place value		$0.71 = \frac{71}{100} = \frac{7}{10} + \frac{1}{100}$ $0.37 = \frac{37}{100} = \frac{3}{10} + \frac{7}{100}$												
twinkl	visit twinkl.com													

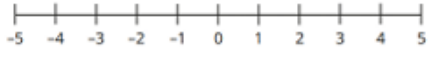
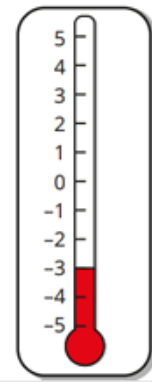

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

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Practise counting in tenths, hundredths and thousandths.

Weblink with activities [What are decimals? - BBC Bitesize](#)





Summer Block 4 Negative Numbers













Key Vocabulary		Key Information		Worked Examples	
Negative numbers	Numbers less than zero.	1	Horizontal number lines help us to count forwards and backwards through zero by helping to count the zero.	Use the number lines to answer the questions.  What is 6 less than 4? -2 What is 5 more than -2? 3 What is the difference between 3 and -3? 6	
Positive numbers	Numbers greater than zero.	2	Vertical number lines support the counting forward and backwards through zero, especially through zero for concepts such as temperature.		
Forwards	Moving positively up the number line with the numbers getting bigger.	3	The difference between negative numbers are the intervals on a number line between these numbers.		
Backwards	Moving negatively down the number line with numbers getting smaller.	4	Differences are calculate by subtracting.		
Add	Joining together numbers to create a total.	Prior Knowledge		What temperature does the thermometer show? -3 If it drops by 1 degree, what is the new temperature? -2 What temperature is 5 degrees warmer than the temperature shown? 2 	
Subtract	Taking a value away from another.	Y2	Identify and represent numbers on a number line.		
Zero	0	Y4	Count backwards through zero including negative numbers.		
Intervals	Steps on the number line.	Y5	Count forwards and backwards with negative numbers on a number line.		
		Worked Examples			
		Complete the sequence			
					

Vocabulary and home learning


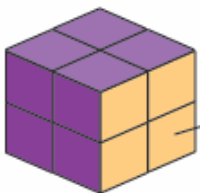

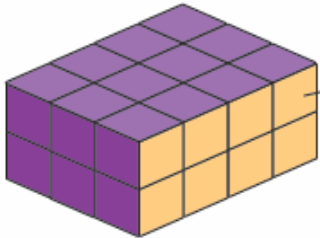

- Web link [What are negative numbers? - BBC Bitesize](#)
- Practise using a thermometer to measure outdoor temperature especially in winter.
- Use the bbc weather website to look at the coldest countries and regions of the world.
- Find two places to compare temperatures and track them using a spreadsheet or graph.

Summer Block 5 Converting Units Converting metric units - Maths - Learning

Converting Units		Knowledge Organiser	
Key Vocabulary	Converting Mass	Converting Capacity	
mass	 <p>1000g = 1kg</p> <p>$\frac{1}{10}$ kg = 0.1kg = 100g</p> <p>$\frac{1}{4}$ kg = 0.25kg = 250g</p> <p>$\frac{1}{2}$ kg = 0.5kg = 500g</p> <p>$\frac{3}{4}$ kg = 0.75kg = 750g</p> <p>kg $\xrightarrow{\times 1000}$ g</p> <p>g $\xrightarrow{+1000}$ kg</p>	 <p>1000ml = 1 litre</p> <p>$\frac{1}{10}$ l = 0.1l = 100ml</p> <p>$\frac{1}{4}$ l = 0.25l = 250ml</p> <p>$\frac{1}{2}$ l = 0.5l = 500ml</p> <p>$\frac{3}{4}$ l = 0.75l = 750ml</p> <p>$\frac{1}{100}$ l = 0.01l = 10ml</p> <p>l $\xrightarrow{\times 1000}$ ml</p> <p>ml $\xrightarrow{+1000}$ l</p>	
gram			
kilogram			
capacity			
volume			
millilitre	Converting Length		
centilitre	 <p>km $\xrightarrow{\times 1000}$ m $\xrightarrow{\times 100}$ cm $\xrightarrow{\times 10}$ mm</p> <p>mm $\xrightarrow{\div 10}$ cm $\xrightarrow{\div 100}$ m $\xrightarrow{\div 1000}$ km</p> <p>1000 metres = 1 kilometre</p> <p>100cm = 1m</p> <p>10mm = 1cm</p> <p>$\frac{1}{10}$ km = 0.1km = 100m</p> <p>$\frac{1}{4}$ km = 0.25km = 250m</p> <p>$\frac{1}{2}$ km = 0.5km = 500m</p> <p>$\frac{3}{4}$ km = 0.75km = 750m</p>		
litre			
millimetre			
centimetre			
kilometre			
			

Converting Units		Knowledge Organiser	
Units of Time			
Minute 1 minute = 60 seconds 	Hour 1 hour = 60 minutes 	Day 1 day = 24 hours 	Week 1 week = 7 days 
		Fortnight 1 fortnight = 2 weeks 	Month January = 31 days February = 28 days (29 in a leap year) March = 31 days April = 30 days May = 31 days June = 30 days July = 31 days August = 31 days September = 30 days October = 31 days November = 30 days December = 31 days 
Year 1 year = 12 months = 52 weeks = 365 days 	Leap Year 1 leap year = 366 days 	Decade 1 decade = 10 years 	Century 1 century = 100 years 
		Millennium 1 millennium = 1000 years 	
			

Summer Block 5 Volume

Volume		Knowledge Organiser
Key Vocabulary	Volume of Cubes and Cuboids	
cubed	<p>Volume is measured in cubed units. For example, cm³, m³ and km³.</p> <p>To calculate the volume of cubes and cuboids:</p> <ol style="list-style-type: none"> 1. Calculate the area of the cross-section (one face). 2. Multiply the area of the cross-section (one face) by its depth. 	
area		
cross-section		
prism		
cube	 <p>Area of cross section (face) = $2\text{cm} \times 2\text{cm} = 4\text{cm}^2$</p> <p>$4\text{cm}^2 \times 2\text{cm} = \text{Volume of } 8\text{cm}^3$</p>	
cuboid		
face		
length		
height	 <p>Area of cross section (face) = $4\text{cm} \times 2\text{cm} = 8\text{cm}^2$</p> <p>$8\text{cm}^2 \times 3\text{cm} = \text{Volume of } 24\text{cm}^3$</p>	
width		
depth		

Vocabulary and home learning

Weblink and activities [What is volume? - BBC Bitesize](#)

Use lego (same bricks) to construct cuboids and cubes of different volumes.

Practise multiplying 3 numbers and revise properties of cubes and cuboids.

Place Value

Tm Ten Millions 10 000 000	M Millions 1 000 000	Hth Hundred Thousands 100 000	Tth Ten Thousands 10 000	Th Thousands 1000	H Hundreds 100	T Tens 10	O Ones 1	t Tenths 0.1 $\frac{1}{10}$	h Hundredths 0.01 $\frac{1}{100}$	th Thousandths 0.001 $\frac{1}{1000}$

10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009

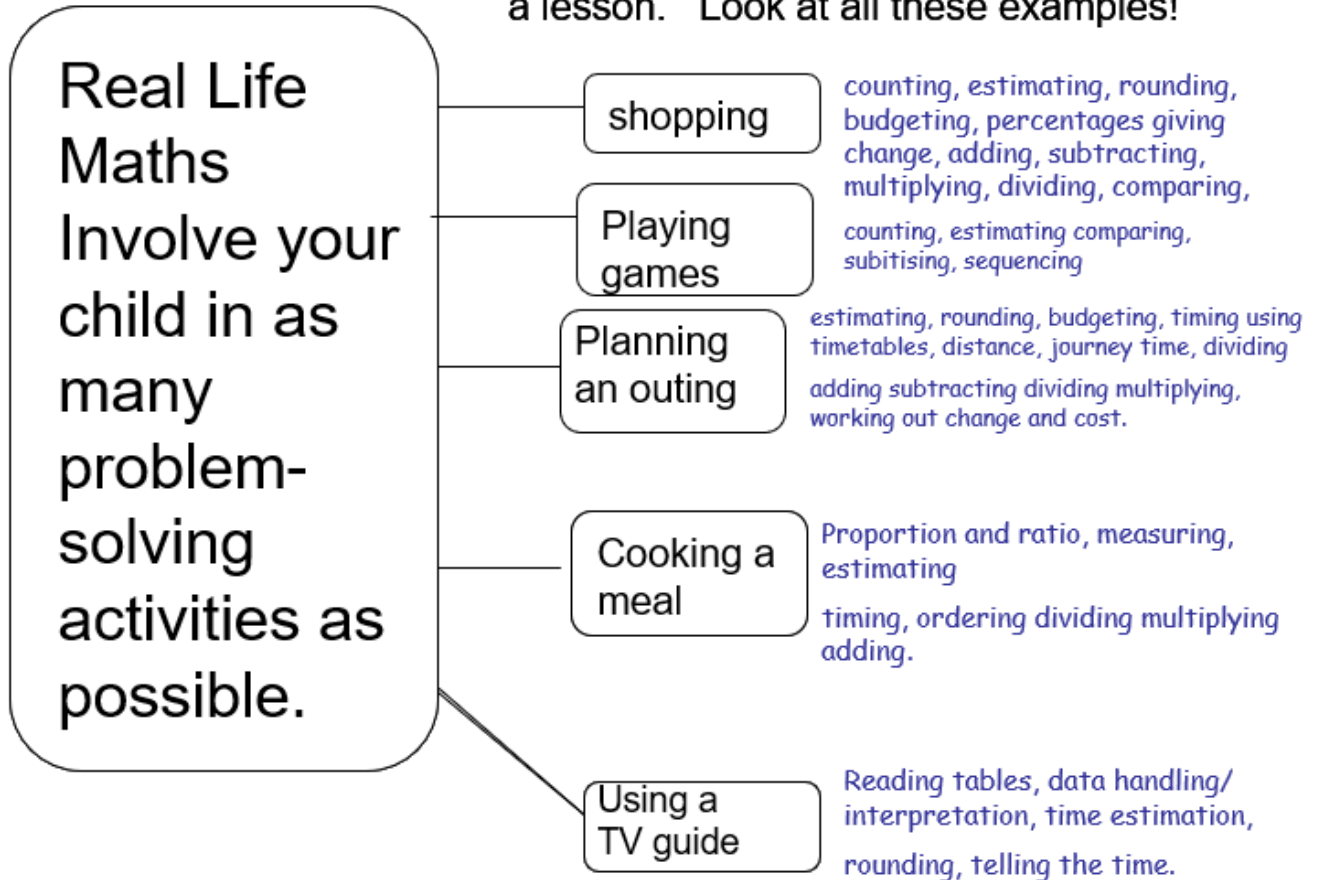
Multiplication Square

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100



Real Life Maths!

Encourage your child to see Maths as skills essential to life, not just a lesson. Look at all these examples!



Decimal place value grid

Tens	Ones	•	Tenths	Hundredths
		•		