

Mathematics Medium Term Planning: Autumn term Y2/3.

Week.	Mathematical aspect	Non-negotiable end points Year 2.	Non-negotiable end points Year 3	Curriculum Statements. Year 2.	Curriculum Statements. Year 3.
1.	Number and place value: counting, reading and writing numbers, place value	Knows the properties of two digit numbers. Knows that counting can be done in varying step sizes.	Knows the properties of place value for three-digit numbers.	<ul style="list-style-type: none"> <li>● To count in steps of 2, 3, and 5 from 0, and count in tens from any number, forward or backward.</li> <li>● To recognise the place value of each digit in a two-digit number (tens, ones).</li> <li>● To identify, represent and estimate numbers using different representations, including the number line.</li> <li>● To compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</li> <li>● To read and write numbers to at least 100 in numerals and in words.</li> <li>● To use place value and number facts to solve problems.</li> </ul>	<ul style="list-style-type: none"> <li>● To recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>● To compare and order numbers up to 1000.</li> <li>● To read and write numbers up to 1000 in numerals and in words.</li> </ul>
2.	Addition and subtraction: concrete, visual and number facts. Written methods 2 and 3 digit numbers, column methods.	Knows number bonds to 20. Knows efficient strategies for adding and subtracting for up to two 2-digit numbers. Knows that addition is commutative.	Knows bonds to 20 and 100. Knows how to add/subtract multiples of 10, 100 from three-digit numbers. Knows how to calculate with columnar methods.	<p>To solve problems with addition and subtraction:</p> <ul style="list-style-type: none"> <li>● Using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>● Applying their increasing knowledge of mental and written methods.</li> <li>● To recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.</li> <li>● To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.</li> <li>● To show that addition can be done in any order (commutative) and subtraction cannot.</li> <li>● To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> </ul>	<ul style="list-style-type: none"> <li>● To add and subtract numbers mentally, including: <ul style="list-style-type: none"> <li>● a three-digit number and ones</li> <li>● a three-digit number and tens</li> <li>● a three-digit number and hundreds.</li> </ul> </li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> <li>● To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction.</li> </ul>

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**Near doubles**  
 $13+14 =$   
 Double 13 = 26  
 $26+1 = 27$   
 or  
 Double 14 = 28  
 $28-1 = 27$

$25 + 25 = 50$  double  
 $24 + 25 = 49$  near double  
 $28 + 20 = 48 + 10, +10$   
 $3 + 27 = 30, 27 + 3 = 30$

$25 - 20 = 5$  difference  
 $50 - 25 = 25$  halving  
 $28 - 12 = 16 - 10, - 6$   
 $70 - 11 = 70 - 10 - 1$

**Using known facts**  
 $40 + 80 = 120$  using  $4 + 8 = 12$   
 So,  $400 + 800 = 1200$

**Remodelling strategy**  
 $243 + 198$   
 $241 + 200 = 441$

0	0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10
1	1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10
2	2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	2+10
3	3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7	3+8	3+9	3+10
4	4+0	4+1	4+2	4+3	4+4	4+5	4+6	4+7	4+8	4+9	4+10
5	5+0	5+1	5+2	5+3	5+4	5+5	5+6	5+7	5+8	5+9	5+10
6	6+0	6+1	6+2	6+3	6+4	6+5	6+6	6+7	6+8	6+9	6+10
7	7+0	7+1	7+2	7+3	7+4	7+5	7+6	7+7	7+8	7+9	7+10
8	8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8+10
9	9+0	9+1	9+2	9+3	9+4	9+5	9+6	9+7	9+8	9+9	9+10
10	10+0	10+1	10+2	10+3	10+4	10+5	10+6	10+7	10+8	10+9	10+10

**Columnar addition**

$$\begin{array}{r} 625 \\ + 48 \\ \hline 673 \\ 1 \end{array}$$

Regroup the 10

**Columnar subtraction**

$$\begin{array}{r} 673 \\ - 286 \\ \hline 387 \end{array}$$

Exchange from tens to ones, hundreds to tens

$18 + 18 = 36$   
 Because  $18 + 10 = 28$  then add on 2 then 6.  
 Is this the best way?

$29 - 26 = 3$   
 Because you just count on from 26.  
 Is this true?

Raj says that  $32 + 6 = 38$  and  $32 - 6 = 28$ . Is he right?

Raj says  $14 + 15 = 31$  and  $14 - 31 = 15$  as they are a fact family. What is going wrong?

Which digit changes and which stay the same?

$543 + 1$      $543 - 1$   
 $543 + 10$      $543 - 10$   
 $543 + 100$      $543 - 100$

What facts will you use?    What strategies will you use?

$376 + 4$      $695 + 8$   
 $376 + 20$      $695 + 30$   
 $376 + 400$      $695 + 600$

Show how to add and subtract these numbers with 324.

675    100    10    1  
 43    100    10    1  
 900    100    10    1  
 127    100    10    1

Which method?

$400 + 300$      $5 \square 3$      $56 \square$   
 $600 - 200$      $+ 134$      $- 134$   
 $492 + 36$      $\underline{69}$      $\underline{429}$   
 $492 - 236$

What are the missing digits?

3.

Multiplication and division: repeated addition equal groups of.  
 Knows and recalls table facts.

Knows the operations of multiplication (repeated addition) and division (equal groups of).  
 Knows that multiplication is commutative.

Knows the 2, 4- and 8-times tables and the doubling patterns.  
 Knows how to multiply using the associative law.

- To recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.
- To calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication, division and equals signs.
- To recognise and use the inverse relationship between multiplication and division in calculations.
- To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot.
- To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.

- To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
- To 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.

Arrays representing the dividend

$10 \div 2 = 5$  and  $10 \div 5 = 2$

Repeated addition (to reach a given target)

There are 20 sweets in a bag. How many children can have 5 each?

Repeated subtraction (from a given quantity)

How many number sentences can you write to describe this array? Can you use addition, multiplication and division?

Explain your answers.

X	2	4	8
5			
3			
10			

X	8	2	4
8			
6			
9			

Convince me that  $3 \times 5$  is the same as  $5 \times 3$ .

Complete the fact family:

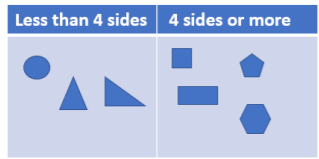
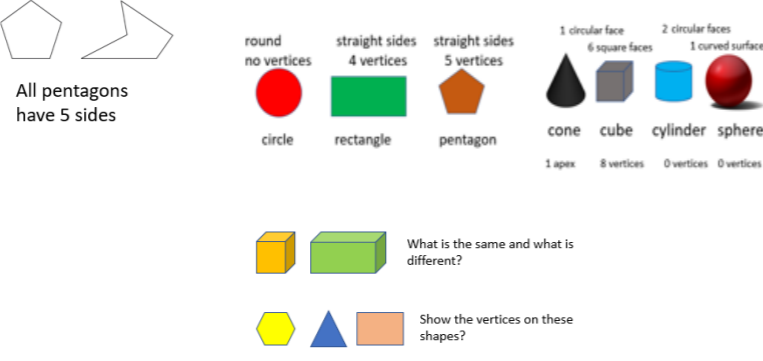
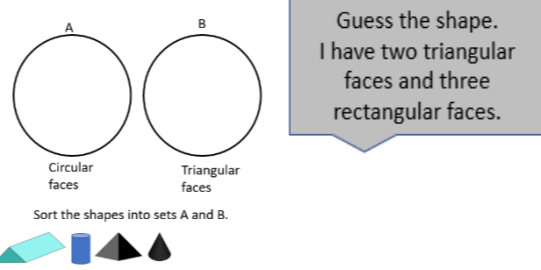
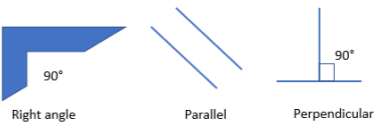
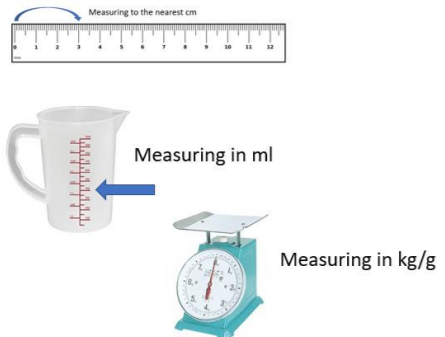
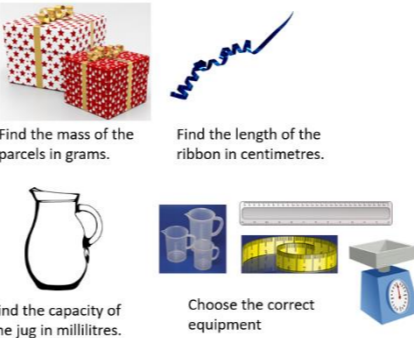
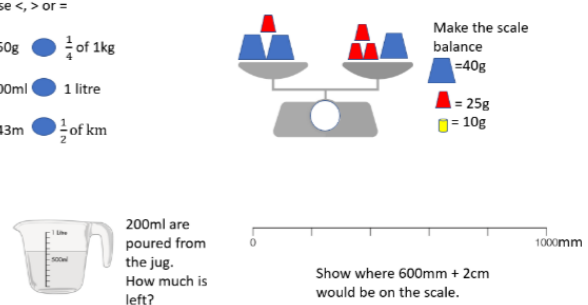
$2 \times 5 = 10$   
 $5 \times 2 = 10$   
 $10 \div 5 = 2$   
 $10 \div ?? = ??$

$3 \times 4 \times 2 = 24$   
 Jane did  $3 \times 4$  then doubled for  $\times 2$ .  
 James did  $4 \times 2 = 8$ , then  $8 \times 3$ .

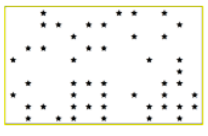
Commutative law

9	12	15	18	21
12	16	20	24	28
15	20	25	30	35

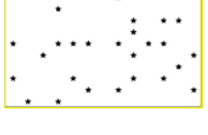
## Mathematics Medium Term Planning: Autumn term Y2/3.

4.	Geometry: properties of shape	Know the mathematical names and properties of 2d and 3d shapes.	Know the mathematical names and properties of 2d and 3d shapes including parallel and perpendicular lines.	<ul style="list-style-type: none"> <li>To identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line.</li> <li>To identify and describe the properties of 3D shapes including the number of edges, vertices and faces.</li> <li>To identify 2D shapes on the surface of 3D shapes, for example circle on a cylinder and a triangle on a pyramid.</li> <li>To compare and sort common 2D and 3D shapes and everyday objects.</li> </ul>	<ul style="list-style-type: none"> <li>To draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them with increasing accuracy.</li> <li>To identify horizontal, vertical, perpendicular and parallel lines in relation to other lines.</li> </ul>																									
						 <table border="1" data-bbox="2092 619 2567 840"> <thead> <tr> <th>Shape</th> <th>Number of sides</th> <th>Number of right angles</th> <th>Pairs of parallel lines</th> </tr> </thead> <tbody> <tr> <td>Square</td> <td>4</td> <td>4</td> <td>2</td> </tr> <tr> <td>Rectangle</td> <td>4</td> <td>4</td> <td>2</td> </tr> <tr> <td>Triangle</td> <td>3</td> <td>1</td> <td>0</td> </tr> <tr> <td>Pentagon</td> <td>5</td> <td>0</td> <td>0</td> </tr> <tr> <td>Hexagon</td> <td>6</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Shape	Number of sides	Number of right angles	Pairs of parallel lines	Square	4	4	2	Rectangle	4	4	2	Triangle	3	1	0	Pentagon	5	0	0	Hexagon	6	0	0
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5.	Measurement: length, mass, capacity	Knows the standard units of measure for length, mass and capacity.	Knows the relationships between the units of measure for each aspect.	<p>To choose and use appropriate standard units to estimate and measure length/ height in any direction; mass; temperature; volume and capacity to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.</p> <ul style="list-style-type: none"> <li>To compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math>.</li> </ul>	<ul style="list-style-type: none"> <li>To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>																									
		<table border="1" data-bbox="682 1123 905 1312"> <tbody> <tr> <td>1km</td> <td>1000 m</td> </tr> <tr> <td>1m</td> <td>100 cm</td> </tr> <tr> <td>1cm</td> <td>10 mm</td> </tr> <tr> <td>1 kg</td> <td>1000g</td> </tr> <tr> <td>1 l</td> <td>1000ml</td> </tr> </tbody> </table>		1km	1000 m	1m	100 cm	1cm	10 mm	1 kg	1000g	1 l	1000ml			<p>Use <math>&lt;</math>, <math>&gt;</math> or <math>=</math></p> <p>250g <math>\frac{1}{4}</math> of 1kg 600ml <math>\frac{1}{2}</math> litre 743m <math>\frac{1}{2}</math> of km</p> 														
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6.	Number and place value: comparing, ordering two-digit numbers and knowing their place value	Knows the symbols of comparing numbers. Uses the skill of estimation.	Knows the relative position of numbers. Knows zero as a place holder in three-digit numbers. Knows the rules of rounding.	<ul style="list-style-type: none"> <li>To identify, represent and estimate numbers using different representations, including the number line.</li> <li>To compare and order numbers from 0 up to 100; use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs.</li> <li>To read and write numbers to at least 100 in numerals and in words.</li> <li>To use place value and number facts to solve problems.</li> </ul>	<ul style="list-style-type: none"> <li>Knows how to compare and order numbers up to 1000.</li> <li>Knows how to identify, represent and estimate numbers using different representations.</li> <li>Knows that zero can hold a place in a three-digit number.</li> <li>Knows the rules of rounding to the nearest 10, 100.</li> </ul>																									

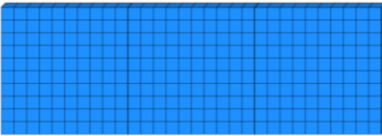
# Mathematics Medium Term Planning: Autumn term Y2/3.




This is 48 stars



Is this more or less than 48 stars?



306  
3 hundreds  
30 tens  
6 ones



276  
2 hundreds  
7 tens  
6 ones

Round to the nearest 10, look at the unit digit

134 rounds to 130      276 rounds to 280

0 - 4 down      5 - 9 up

Round to the nearest 100, look at the tens digit

276 rounds to 300


$27 < 72$

$46 = 46$

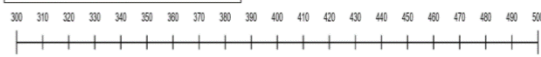
$53 > 28$

Find 48.

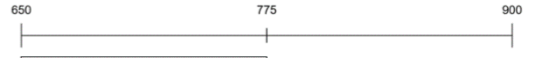
Write statements using < and > and 48.



Place 376, 307, 458, 409 on the number line

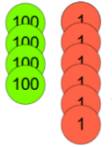


Estimate where 800, 675 and 890 would be on this number line.



Round these numbers to the nearest 10 and 100.

678  
342  
704



Jim says this number is 4006. Is he correct?

7.

Addition and subtraction: using recall of addition and subtraction facts and mental calculation strategies  
Subtraction as take away & difference (counting on and back)

Knows efficient methods using number sense, place value, bridging, near doubles and adjustment strategies.

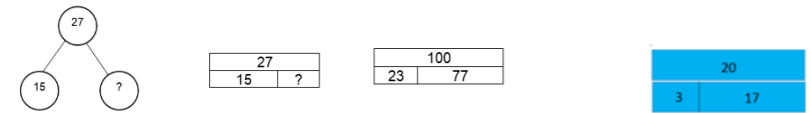
Knows how to calculate with columnar methods including money.

To solve problems with addition and subtraction:

- Using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- Applying their increasing knowledge of mental and written methods.
- To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.
- To show that addition can be done in any order (commutative) and subtraction cannot.
- To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

- To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction.
- To estimate the answer to a calculation and use inverse operations to check answers.
- To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

**Whole-part model**



**Adjustment strategy**

5 + 9 =  
5 + 10 - 1 = 14

77 - 9 =  
77 - 10 + 1 = 67 + 1 = 68

**Re-arranging**

18 + 4 =  
Tell me what you know about 4, e.g. 3+1, 2+2  
18+4 = Rearrange the 4 into 2+2 18+2+2 = 20+2 = 22

**(Round and adjust)**  
What is the nearest 10?  
55 - 27 =  
55 - 30 + 3 = 25 + 3 = 28  
91 - 48 =  
91 - 50 + 2 = 41 + 2 = 43

**Using £ notation and the decimal point**

£ 678.00  
- £ 126.00  
-----  
   552.00

**Lining up the place value.**

£ 345.00  
+ £ 62.98  
-----  
   407.98

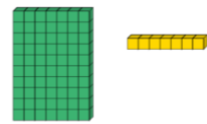
Add  
25 + 10  
25 + 15  
25 + 17

Subtract  
65 - 10  
65 - 15  
65 - 55

Spot the mistake  
75 + 25 = 100  
76 + 34 = 100  
100 - 24 = 76

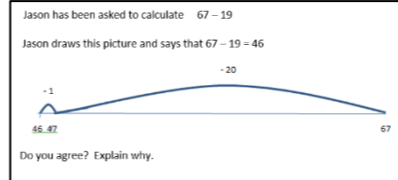
Better, best  
25 + 29 = 54  
25 + 30 = 55, then subtract 1  
25 + 25 = 50, then add 4

Show me how to do 76 - 43 using the Dienes.



Jason has been asked to calculate 67 - 19

Jason draws this picture and says that 67 - 19 = 46



Do you agree? Explain why.

Kevin says that

**The difference between 72 and 68 is 16**

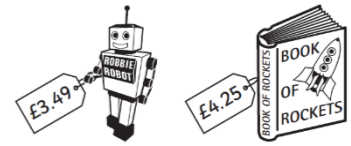
Can you explain what Kevin has done wrong?

Which is the correct notation?

£567.54p  
£567.54

Dan buys two presents.


How much change does he get from £10?  
Show your working.



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8.	<p>Multiplication and division: grouping and using times tables facts.</p> <p>Written methods partitioning and rearranging the dividend</p>	<p>Knows the 2s, 5s and 10s times tables.</p> <p>Uses arrays to represent multiplication and division facts.</p>	<p>Knows how to partition numbers when multiplying.</p> <p>Knows how to rearrange dividends into multiples of the divisor.</p>	<ul style="list-style-type: none"> <li>To recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.</li> <li>To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (<math>=</math>) signs.</li> <li>To recognise and use the inverse relationship between multiplication and division in calculations.</li> <li>To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot.</li> <li>To solve one-step problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.</li> </ul>	<ul style="list-style-type: none"> <li>To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Explain the effect of multiplying by 10 and multiples of 10</li> <li>To 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 and progressing to formal written methods.</li> <li>To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
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**Building tables**



Build tables using counting stick- forwards and backwards and with missing jumps

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1x1	1x2	1x3	1x4	1x5	1x6	1x7	1x8	1x9	1x10	1x11	1x12
2	2x1	2x2	2x3	2x4	2x5	2x6	2x7	2x8	2x9	2x10	2x11	2x12
3	3x1	3x2	3x3	3x4	3x5	3x6	3x7	3x8	3x9	3x10	3x11	3x12
4	4x1	4x2	4x3	4x4	4x5	4x6	4x7	4x8	4x9	4x10	4x11	4x12
5	5x1	5x2	5x3	5x4	5x5	5x6	5x7	5x8	5x9	5x10	5x11	5x12
6	6x1	6x2	6x3	6x4	6x5	6x6	6x7	6x8	6x9	6x10	6x11	6x12
7	7x1	7x2	7x3	7x4	7x5	7x6	7x7	7x8	7x9	7x10	7x11	7x12
8	8x1	8x2	8x3	8x4	8x5	8x6	8x7	8x8	8x9	8x10	8x11	8x12
9	9x1	9x2	9x3	9x4	9x5	9x6	9x7	9x8	9x9	9x10	9x11	9x12
10	10x1	10x2	10x3	10x4	10x5	10x6	10x7	10x8	10x9	10x10	10x11	10x12
11	11x1	11x2	11x3	11x4	11x5	11x6	11x7	11x8	11x9	11x10	11x11	11x12
12	12x1	12x2	12x3	12x4	12x5	12x6	12x7	12x8	12x9	12x10	12x11	12x12

**Grid method**  
 $23 \times 8 =$   
 $20 \times 8 = 160$   
 $3 \times 8 = 24$   
 $23 \times 8 = 184$

x	20	3
8		

**Rearranging the dividend to find multiples of the divisor.**  
 $48 \div 3 =$   
 "What do I know about the 3 x tables?"  
 "I know  $3 \times 10 = 30$  and  $3 \times 6 = 18$ ."  
 $48 \div 3 = 16$

Complete the 2x table facts

x	1	2
1	1x1	2
2	2x1	2x2
3	3x1	6
4	4x1	8
5	5x1	5x2
6	6x1	12
7	7x1	7x2
8	8x1	16
9	9x1	18
10	10x1	10x2
11	11x1	11x2
12	12x1	24

Complete the 5x table facts

5	
5	
2x5	
15	
20	
5x5	
6x5	
35	
8x5	
45	
10x5	
11x5	
60	

Odd or even?

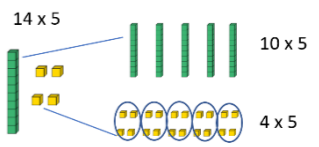
4x10
5x10
6x10
7x10
8x10

Complete the 10x table facts and write the division facts.

**Using known facts**  
 If  $3 \times 2 = 6$ , then  $30 \times 2 = 60$ ,  $60 \div 3 = 20$  and  $30 = 60 \div 2$ .

**Partitioning**  
 Informal recording of partitioned numbers  
 $15 \times 5 = 75$

$10 \times 5 = 50$   
 $5 \times 5 = 25$



Solve these equations

$75 \times 5 =$   
 $36 \times 4 =$   
 $22 \times 8 =$

Partitioning

Solve these equations

$95 \div 5 =$   
 $56 \div 4 =$   
 $84 \div 2 =$

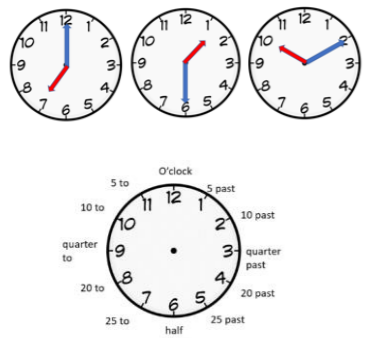
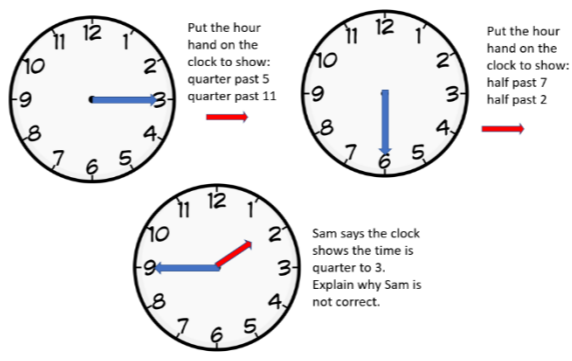

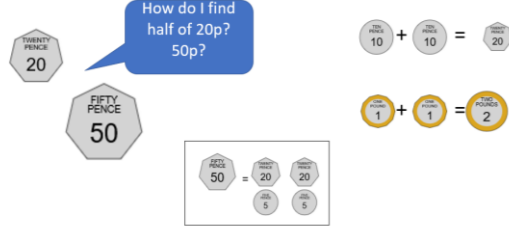

Rearranging the dividend

9.	<p>Fractions: finding fractions of quantities, shapes and sets of objects</p> <p>finding hundredths and families of common equivalents</p> <p>representing, comparing and ordering of unit fractions of shapes and numbers.</p>	<p>Knows that fractions are relative to the whole.</p> <p>Knows that fractions are equal parts to the whole</p>	<p>Knows that fractions are relative to the whole and can be represented in different ways</p>	<ul style="list-style-type: none"> <li>To recognise, find, name and write fractions <math>1/3</math>, <math>1/4</math>, <math>2/4</math> and <math>3/4</math>.</li> <li>To write simple fractions for example, <math>1/2</math> of <math>6 = 3</math> and recognise the equivalence of two quarters and one half.</li> </ul>	<ul style="list-style-type: none"> <li>To recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> <li>To recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>To compare and order unit fractions, and fractions with the same denominators.</li> <li>To solve problems that involve all of the above.</li> </ul>
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Mathematics Medium Term Planning: Autumn term Y2/3.

<p>One of three equal parts</p> <p>whole</p> <p>Equal parts to the whole</p>	<p>Write the fraction that is shaded.</p> <p>Place the fractions in the correct positions on the number line</p>	<p>1 ten = ten ones</p> <p>Order these fractions from smallest to largest.</p> <p>How many sixths equal <math>\frac{1}{2}</math>?</p>			
<p>10.</p>	<p>Geometry: position, movement and motion</p>	<p>Knows how to describe position and movement using the correct terms.</p>	<p><i>Knows how to describe position and movement using right angles for quarter turns.</i></p>	<ul style="list-style-type: none"> <li>To order and arrange combinations of mathematical objects in patterns.</li> <li>To use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) and movement in a straight line.</li> </ul>	<ul style="list-style-type: none"> <li>To describe position and movement using clockwise, anti-clockwise, left and right. (Y2)</li> <li>To describe position and movement using the correct terms.</li> </ul>
<p>The blue square has moved 2 spaces to the right and 3 spaces down.</p>	<p>Where will the shape be after a <math>\frac{3}{4}</math> turn?</p>	<p>Move the dog to the bones. How does the dog move?</p>	<p>Move the green square to the same position as the black square. Describe how it has moved.</p>	<p>Jan says that the blue square has moved 2 squares to the left and 2 squares up. Explain why Jan is not correct.</p>	<p>The arrow has moved a half turn clockwise, two right angles.</p> <p>This shape has moved three quarter turn clockwise, three right angles.</p>
<p>11 &amp; 12.</p>	<p>Measurement: time and money. 12-hour clock am/pm</p>	<p>Knows how to read the time to the nearest 15 minutes.</p> <p>Knows how to find totals and equivalent amounts in money using notes and coins.</p>	<p>Knows how to read the time to the nearest minute. Knows that the 12-hour clock can represent am or pm. Knows the passing of time can be calculated as time durations.</p>	<p>To compare and sequence intervals of time.</p> <ul style="list-style-type: none"> <li>To tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.</li> <li>To recognise and use the symbols for pounds and pence; combine amounts to make a particular value</li> <li>To find different combinations of coins that equal the same amounts of money</li> <li>To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> </ul>	<ul style="list-style-type: none"> <li>To tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> <li>To estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight.</li> <li>To know the number of seconds in a minute and the number of days in each month, year and leap year.</li> <li>To compare durations of events, for example to calculate the time taken by particular events or tasks</li> </ul>

## Mathematics Medium Term Planning: Autumn term Y2/3.

 <p style="text-align: center;">One minute interval. Am and pm, morning, afternoon, noon, midnight</p> <div style="display: flex; justify-content: space-around; text-align: center;"> <div>7 o'clock 7:00 pm 19:00</div> <div>Half past 1 1:30 am 01:30</div> <div>Ten past 2 10:10 pm 22:10</div> </div>	 <p>Put the hour hand on the clock to show: quarter past 5 quarter past 11 half past 7 half past 2</p> <p>Sam says the clock shows the time is quarter to 3. Explain why Sam is not correct.</p>	<p>Draw these times on a clock face</p> <ul style="list-style-type: none"> <li>26 minutes past one</li> <li>14 minutes to seven</li> <li>12 minutes past 9</li> </ul>  <p>Put these times on order starting at midnight</p> <ul style="list-style-type: none"> <li>5 past two, am</li> <li>7 minutes to 6, pm</li> <li>Quarter to 9, am</li> <li>Half past 11, pm</li> <li>25 to 8, pm</li> </ul>
 <p>How do I find half of 20p? 50p?</p> <p><math>20p + 20p = 40p</math></p> <p><math>1p + 1p = 2p</math></p> <p><math>50p = 20p + 20p + 5p + 5p</math></p>	<p>Paul buys two strawberry cup cakes and a chocolate cup cake. The chocolate cake cost 25p more than the strawberry ones. He spent £3.70. What is the cost of each cake?</p> <p>Design a question with another step.</p> <p>Design a question with another step and more challenge.</p> 	<p>Which is more?</p> <p>Odd one out?</p> <p>Would you like these 3 coins or the other 3 coins?</p>
<p>Jenny's lunch costs £4.50. She pays with a £10 note.</p> <p>Find three different ways in which she could receive her change.</p> <p>Bill wants to buy a comic costing £1.50. He saves 30p one week and 65p the next week.</p> <p>How much more money does he need to buy the comic?</p> 