



## Year 6 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
Phase 1	<b>Number and Place Value</b>		<b>Addition and Subtraction Multiplication and division</b>				<b>Fractions</b>				<b>Geometry Pos &amp; Dir</b>
Phase 2	<b>Fractions Decimals and percentages</b>			<b>Geometry Properties of shape</b>	<b>Measurement Area, perimeter, volume</b>			<b>Geometry and statistics</b>			
Phase 3	<b>Fractions Ratio &amp; proportion</b>		<b>Algebra</b>	<b>SATs revision</b>				<b>SATs week</b>			
Phase 4 (EoY)	<b>Post SATs project work</b>										

<b>Ongoing throughout the year:</b>	
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## Year 6 Phase 3 Objectives

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
<b>Main Sessions</b>	<u>Fractions - Ration &amp; Proportion</u> Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.  Solve problems involving similar shapes where the scale factor is known or can be found.  Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.		Number: Algebra Use simple formulae.  Generate and describe linear number sequences.  Express missing number problems algebraically.  Find pairs of numbers that satisfy an equation with two unknowns.  Enumerate possibilities of combinations of two variables.	<u>SATs Revision</u>			<u>SATs Week</u>	

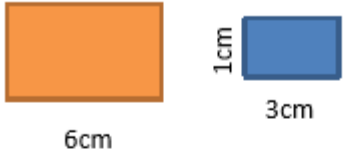
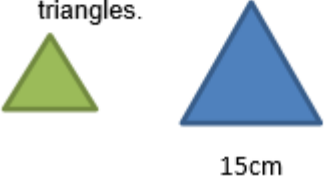

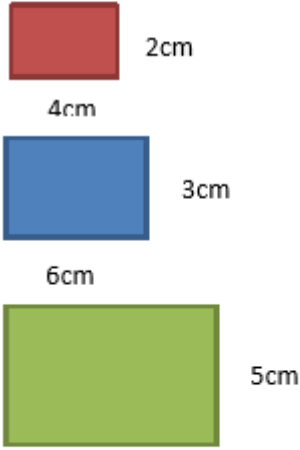








<b>S &amp; D Sessions</b>			
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## Year 6 MTP – Phase 3

Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving																									
Ratio & proportion	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.	<ul style="list-style-type: none"> <li>In 1 week I eat 2 ice creams.              How many ice creams will I eat in:            a) 2 weeks?            b) 4 weeks?            c) 8 weeks?            d) 14 weeks?</li> <li>For every 2 apples Sally eats, she eats 1 banana.  </li> </ul> <p>Fill in the missing numbers in the sentences below.</p> <p>For every 4 apples, Sally eats ___ bananas.</p> <p>For every ___ apples, Sally eats 8 bananas.</p>	<ul style="list-style-type: none"> <li>1:2 and 3:6 are equivalent ratios. Circle the ratios below that are also equivalent to 1:2 and 3:6            4:5 8:16 4:8 3:9 2:6            Explain how you know.</li> <li>Finish the sequence of ratios:            3:4, 6:8, 9:12, _____, _____            Explain how you found the missing numbers.            What is the rule for the sequence?</li> <li>Orange paint is made from red and yellow paint in the ratio of 3:5            To make 40 litres of orange paint how much would I need of each colour?            Explain your thinking.</li> </ul>	<ul style="list-style-type: none"> <li>I measured my stride when walking and found it to be 80cm. If I walk for 16m, how many strides do I take?</li> <li>Idina is making buns. Can you fill in the missing quantities in the table below?</li> </ul> <table border="1" data-bbox="1473 689 1951 970"> <thead> <tr> <th></th> <th>Butter</th> <th>Sugar</th> <th>Eggs</th> <th>Flour</th> </tr> </thead> <tbody> <tr> <td>12 buns</td> <td>120g</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>24 buns</td> <td></td> <td>200g</td> <td></td> <td></td> </tr> <tr> <td>30 buns</td> <td></td> <td></td> <td></td> <td>375g</td> </tr> <tr> <td>84 buns</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>In Year 6, there are 36 children with blonde hair and 48 children with brown hair. There are half as many children with black hair as there are with blonde hair. What is the overall ratio for blonde to brown to black hair in Year 6? Can you simplify this ratio?</li> </ul>		Butter	Sugar	Eggs	Flour	12 buns	120g		2		24 buns		200g			30 buns				375g	84 buns				
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<b>Ratio &amp; proportion</b>	Solve problems involving similar shapes where the scale factor is known or can be found.	<ul style="list-style-type: none"> <li>These 2 rectangles are similar. Can you find the missing lengths?  </li> <li>The rectangles in the table below are similar. Fill in the missing lengths and widths.           <table border="1" data-bbox="548 746 936 906" style="margin: 10px 0;"> <thead> <tr> <th>Rectangle</th> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>5cm</td> <td>2cm</td> </tr> <tr> <td>B</td> <td></td> <td>4cm</td> </tr> <tr> <td>C</td> <td>25cm</td> <td></td> </tr> <tr> <td>D</td> <td></td> <td>18cm</td> </tr> </tbody> </table> </li> <li>Here are two equilateral triangles. The blue triangle is three times larger than the green triangle. Find the perimeter of both triangles.  </li> </ul>	Rectangle	Length	Width	A	5cm	2cm	B		4cm	C	25cm		D		18cm	<ul style="list-style-type: none"> <li>Find the missing lengths.  </li> <li>Can you explain how you found each of the missing lengths?</li> <li>Tom says these three rectangles are similar.  </li> <li>Do you agree? Explain your reasoning.</li> </ul>	<ul style="list-style-type: none"> <li>One rectangle has a perimeter of 16cm. Another similar rectangle has a perimeter of 24cm. The length of the smaller rectangle is 6cm. Draw both rectangles.</li> <li>Draw 3 rectangles with the same area where the length increases by the scale factor 2. Can you find more than one way of doing this?</li> </ul>
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<b>Ratio &amp; proportion</b>	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	<ul style="list-style-type: none"> <li>Look at the set of shapes. Circle the statements that are true.           <div style="text-align: center;">  </div> <ol style="list-style-type: none"> <li>There are two orange squares for every six purple squares.</li> <li>There are three purple squares for every orange square.</li> <li>The ratio of orange to purple is 1:3</li> <li>The ratio of purple to orange is two to six.</li> </ol> </li> <li>Complete the sentences to describe the set of objects.           <div style="text-align: center;">  </div> <p>There are 3 _____ for every 5 _____.</p> <p>There are _____ for every _____.</p> </li> </ul>	<ul style="list-style-type: none"> <li>Danyal makes a necklace using green and orange beads. He makes a repeating pattern of 2 green beads and 3 orange beads.           <div style="text-align: center;">  </div> <p>If he has 14 green beads and 25 orange beads, can he make a necklace without any beads being left over?</p> <p>Explain your answer.</p> </li> <li>Sarah makes a necklace using the repeating pattern shown below:           <div style="text-align: center;">  </div> <p>Which of the following statements is true?</p> <ol style="list-style-type: none"> <li>If Sarah uses 12 green beads, she will use more than 30 orange beads.</li> <li>If Sarah uses 12 green beads, she will use exactly 30 orange beads.</li> <li>If Sarah uses 12 green beads, she will use less than 30 orange beads.</li> </ol> <p>Explain your reasoning.</p> </li> </ul>	<ul style="list-style-type: none"> <li>A coach holds 50 people. Most of the seats are taken. Junior tickets cost £13 and Adult tickets cost £23. The total amount paid for tickets is approximately £900. How many people on the coach were adults and how many were juniors? Can you find more than one option?           <div style="text-align: center;">  </div> </li> <li>A shopkeeper spent exactly £10 on 100 eggs for her shop.           <div style="text-align: center;"> <p>Large eggs cost 50p each. Medium eggs cost 10p each. Small eggs cost 5p each.</p> <p>For two of the sizes, the shopkeeper bought the same number of eggs.</p> <p>How many of each size did the shopkeeper buy?</p> <div style="text-align: center;">  </div> </div> </li> </ul>
		<p><b>Additional Guidance:</b> Using the bar model to represent ratio and proportion problems: <a href="https://sites.google.com/a/cusdk8.org/ratio-using-the-bar-model/home/ratio-and-fraction">https://sites.google.com/a/cusdk8.org/ratio-using-the-bar-model/home/ratio-and-fraction</a></p>		





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<b>Number: Algebra</b>	Use simple formulae.	<ul style="list-style-type: none"> <li>Calculate the value of the letter in each equation.               <table border="1" data-bbox="488 467 855 595"> <tr><td><math>3a = 15</math></td><td><math>a =</math></td></tr> <tr><td><math>5b = 10</math></td><td><math>b =</math></td></tr> <tr><td><math>63 = 9c</math></td><td><math>c =</math></td></tr> <tr><td><math>12d = 48</math></td><td><math>d =</math></td></tr> </table> </li> <li>Calculate the value of the letter in each equation.               <table border="1" data-bbox="488 715 855 842"> <tr><td><math>20 = 4a + 4</math></td><td><math>a =</math></td></tr> <tr><td><math>3b + 5 = 11</math></td><td><math>b =</math></td></tr> <tr><td><math>14 = 6c - 4</math></td><td><math>c =</math></td></tr> <tr><td><math>2d - 5 = 5</math></td><td><math>d =</math></td></tr> </table> </li> <li>A function machine adds 7 to any number that is inputted.               <p data-bbox="488 970 705 1026">What is the output when the input is:</p> <p data-bbox="533 1034 616 1090">a) 15 b) 12</p> <p data-bbox="488 1121 705 1177">What is the input when the output is:</p> <p data-bbox="533 1185 616 1241">a) 25 b) 42</p> <div data-bbox="728 970 851 1265"> <table border="1"> <tr><td>Input</td></tr> <tr><td>↓</td></tr> <tr><td>+7</td></tr> <tr><td>↓</td></tr> <tr><td>Output</td></tr> </table> </div> </li> </ul>	$3a = 15$	$a =$	$5b = 10$	$b =$	$63 = 9c$	$c =$	$12d = 48$	$d =$	$20 = 4a + 4$	$a =$	$3b + 5 = 11$	$b =$	$14 = 6c - 4$	$c =$	$2d - 5 = 5$	$d =$	Input	↓	+7	↓	Output	<ul style="list-style-type: none"> <li>If <math>a</math> stands for a number, complete the table below:               <table border="1" data-bbox="974 467 1341 595"> <tr><th><math>a</math></th><th><math>4a</math></th><th><math>4a + 2</math></th></tr> <tr><td>12</td><td></td><td></td></tr> <tr><td></td><td>36</td><td></td></tr> <tr><td></td><td></td><td>102</td></tr> </table> <p data-bbox="974 627 1440 707">If the largest number in the table above was 894. What would the largest total of <math>a</math> be?</p> </li> <li>Helen says,               <div data-bbox="1030 786 1384 1018" style="border: 1px solid blue; border-radius: 15px; padding: 10px; background-color: #4a86e8; color: white; text-align: center;">                 "If there is a number before a letter, you multiply. Eg <math>5b</math> If there is a number after a letter, you divide. Eg <math>6^2</math>"               </div> <p data-bbox="974 1050 1176 1074">Is Helen correct?</p> <p data-bbox="974 1114 1249 1137">Explain your reasoning.</p> </li> <li>Kat substitutes <math>b = 3</math> into the formula <math>4b + 5</math>. She gets the answer 17. Is she correct? Explain your answer.</li> </ul>	$a$	$4a$	$4a + 2$	12				36				102	<ul style="list-style-type: none"> <li>Find the totals of the missing rows and columns.               <table border="1" data-bbox="1489 483 1888 866"> <tr> <td></td> <td></td> <td></td> <td></td> <td style="background-color: #4a86e8; color: white; text-align: center;">54</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="background-color: #4a86e8; color: white; text-align: center;">46</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="background-color: #4a86e8; color: white; text-align: center;">48</td> </tr> </table> </li> <li>7 pears and 1 banana cost 57p. 3 bananas, 1 pear and 2 apples cost 41p. 1 pear, 2 apples and 2 bananas cost 33p. How much does 1 piece of each fruit cost?  Can you write each of the sentences above as a formula?</li> </ul>					54					46										48
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<b>Number: Algebra</b>	Generate and describe linear number sequences.	<ul style="list-style-type: none"> <li>Fill in the first two terms in this sequence. ____, _____, 55, 63, 71  Can you write a formula to describe the sequence?</li> <li>7 is the first term in this sequence. What is the 7<sup>th</sup> term?  7, 12, 17,</li> <li>The formula <math>4n+1</math> can be used to generate the numbers in this sequence. Fill in the table below:</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Term</th> <th>Calculation</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1<sup>st</sup></td> <td><math>4 \times 1 + 1</math></td> <td>5</td> </tr> <tr> <td>5<sup>th</sup></td> <td></td> <td></td> </tr> <tr> <td>10<sup>th</sup></td> <td></td> <td>41</td> </tr> <tr> <td>20<sup>th</sup></td> <td><math>4 \times 20 + 1</math></td> <td></td> </tr> </tbody> </table>	Term	Calculation	Value	1 <sup>st</sup>	$4 \times 1 + 1$	5	5 <sup>th</sup>			10 <sup>th</sup>		41	20 <sup>th</sup>	$4 \times 20 + 1$		<ul style="list-style-type: none"> <li>Write a formula for the 10<sup>th</sup>, 100<sup>th</sup> and <math>n</math>th terms of the sequences below.  4, 8, 12, 16 .....  0.4, 0.8, 1.2, 1.6, .....</li> <li>Here is a sequence:  3, 8, 13, 18, 23  Circle the formula that describes the sequence.  <div style="text-align: center; margin: 5px 0;"><span style="background-color: #4a7ebb; color: white; padding: 5px 15px; border-radius: 10px;"><math>4n - 1</math></span></div><div style="text-align: center; margin: 5px 0;"><span style="background-color: #663399; color: white; padding: 5px 15px; border-radius: 10px;"><math>5n - 2</math></span></div><div style="text-align: center; margin: 5px 0;"><span style="background-color: #00a0a0; color: white; padding: 5px 15px; border-radius: 10px;"><math>3n + 5</math></span></div> Explain your reasoning.</li> </ul>	<ul style="list-style-type: none"> <li>Write three sequences where the rule to find the next term is 'add 3' 1) 2) 3)  Write two different linear sequences where the second number is 5 1) 2)</li> <li>Ramesh is exploring three sequence-generating rules.  Rule A is: 'Start at 30, and then add on 7, and another 7, and another 7, and so on.' Rule B is: 'Write out the numbers that are in the seven times table, and then add 2 to each number.' Rule C is: 'Start at 51, and then add on 4, and another 4, and another 4, and so on.' What's the same and what's different about the sequences generated by these three rules? Explain why any common patterns occur.</li> </ul>
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1 <sup>st</sup>	$4 \times 1 + 1$	5																	
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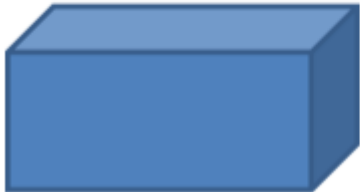


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<p><b>Number:</b> <b>Algebra</b></p>	<p>Express missing number problems algebraically.</p>	<ul style="list-style-type: none"> <li>Which of the following algebraic statements correctly describes the following problem?  <i>"Four times a number and add 5 to get the answer 17"</i> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #d9ead3;">4n + 5 = 17</div> <div style="border: 1px solid black; padding: 5px; background-color: #d9ead3;">5n + 4 = 17</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #d9ead3;">n<sup>4</sup> + 5 = 17</div> <div style="border: 1px solid black; padding: 5px; background-color: #d9ead3;">4(n + 5) = 17</div> </div> </li> <li>An electrician charges £15 for every job that he attends and then £8 an hour for every hour he works. Tick the formula that could be used to calculate how much the electrician would charge for a job. h stands for hours:  <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">9h - 16</div> <div style="text-align: center;">16h + 9</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">9h + 16</div> </div> </li> <li>A plumber charges £9 an hour. She is currently offering a £5 discount for all jobs. Write a formula to calculate how much money she should charge her customers.</li> </ul>	<ul style="list-style-type: none"> <li>A taxi driver charges £3 at the start of each journey. For every mile covered another 25p is added to the fare.   <p>The driver writes the following formula.            Cost of journey = 3 + number of miles x 25            Is the formula correct? Prove it.</p> </li> <li>James and Kelsey are using the following formula to work out what they should charge for three hours work.            Cost in pounds = 40 + 20 x number of hours:            James writes down £180            Kelsey writes down £100            Who do you agree with? Why?</li> </ul>	<ul style="list-style-type: none"> <li>Find the value of the circle in each of the following problems. It is worth a different value in each question.  <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> = 5</div> <div style="text-align: center;"> = 8</div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> + </div> <div style="text-align: center;"> + </div> <div style="text-align: center;"> = 27</div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> </div> </div> <p>Can you write each of the number sentences above algebraically?</p> </div></div></li> <li>Kyra has 92p. She buys yoyos (y) costing 11p and lollies (l) cost 4p. Can you write a formula to solve her problem? Can you find more than one set of numbers to solve her problem?  <div style="text-align: center; margin-top: 10px;">  </div> </li> </ul>



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<b>Number: Algebra</b>	Find pairs of numbers that satisfy an equation with two unknowns.	<ul style="list-style-type: none"> <li>X and Y are whole numbers. X is a one digit number. Y is a two digit number. <math>X + Y = 25</math>.</li> </ul> <p>Find all the possible pairs of numbers that satisfy the equation.</p> <ul style="list-style-type: none"> <li>a and b are variables: <math>a + b = 6</math></li> </ul> <p>Find 5 different possibilities for a and b.</p> <table border="1" data-bbox="551 798 918 989"> <thead> <tr> <th>a</th> <th>b</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> <ul style="list-style-type: none"> <li>Find 3 different possible pairs of values for a and b: <math>ab = 18</math></li> </ul> <p>1) a=    b= 2) a=    b= 3) a=    b=</p>	a	b											<ul style="list-style-type: none"> <li>Rhian is solving the equation <math>a + b = 18</math></li> </ul> <p>a and b are both positive whole numbers.</p> <p>Rhian says,</p> <div style="border: 1px solid blue; border-radius: 15px; background-color: #4a7ebb; color: white; padding: 10px; text-align: center; width: fit-content; margin: 10px auto;"> <p>“a and b must both always be less than 18.”</p> </div> <p>Do you agree?</p> <p>Explain your reasoning.</p> <ul style="list-style-type: none"> <li>Toby is finding a pair of numbers to fit the equation: <math>2a + b = 15</math></li> </ul> <p>Both letters represent whole numbers.</p> <p>Toby says, “One of the numbers must be odd and one must be even,”</p> <p>Do you agree with Toby?</p> <p>Show your reasoning.</p>	<ul style="list-style-type: none"> <li>a and b stand for whole numbers. <math>a + b = 1000</math> and a is 150 greater than b. Work out the values of a and b.</li> <li>A rectangle has the area <math>24\text{cm}^2</math>. This is expressed through the equation <math>l \times w = 24\text{cm}^2</math>.  What could l and w stand for? Draw the rectangles to prove that the area is <math>24\text{cm}^2</math>.</li> <li>x and y are both whole positive numbers. When multiplied together they make an odd number under 20 What could x and y be?</li> </ul>
a	b															



Domain	NC Objectives	Example tasks fluency	Example tasks reasoning	Example tasks problem solving																
<b>Number: Algebra</b>	Enumerate possibilities of combinations of two variables	<ul style="list-style-type: none"> <li>In this equation, a and b are both whole numbers which are less than 12. <div style="text-align: center; border: 1px solid black; border-radius: 10px; width: 100px; height: 40px; margin: 10px auto; background-color: #663399; color: white; display: flex; align-items: center; justify-content: center;"><span style="font-size: 1.2em;">2a=b</span></div></li> <li>Write the calculations that would show all the possible values for a and b.</li> <li>Use the equation to fill in the missing values in the table below. <math>7x + 4 = y</math> <table border="1" style="margin: 10px auto; border-collapse: collapse;"><thead><tr><th style="padding: 5px;">Value of x</th><th style="padding: 5px;">Value of y</th></tr></thead><tbody><tr><td style="height: 20px;"> </td><td> </td></tr><tr><td style="height: 20px;"> </td><td> </td></tr><tr><td style="height: 20px;"> </td><td> </td></tr><tr><td style="height: 20px;"> </td><td> </td></tr></tbody></table></li> </ul>	Value of x	Value of y									<ul style="list-style-type: none"> <li><math>ab = 9</math> Deanna says, <div style="text-align: center; border: 1px solid black; border-radius: 15px; width: 150px; height: 60px; margin: 10px auto; background-color: #90EE90; display: flex; align-items: center; justify-content: center;"><span style="font-size: 0.9em;">"a and b must both be odd numbers"</span></div></li> <li>Do you agree? Prove it.</li> <li>The bar model below shows the equation <math>2g + w = 10</math> <div style="text-align: center; margin: 10px auto;"><table border="1" style="border-collapse: collapse;"><tr><td colspan="3" style="text-align: center; padding: 5px;">10</td></tr><tr><td style="width: 33%; text-align: center; padding: 5px;">g</td><td style="width: 33%; text-align: center; padding: 5px;">g</td><td style="width: 33%; text-align: center; padding: 5px;">w</td></tr></table></div></li> <li>Can you draw a bar model to represent the following equations: <math>3f + g = 20</math> <math>7a + 3b = 40</math> What could the letters represent?</li> </ul>	10			g	g	w	<ul style="list-style-type: none"> <li>Lollipops come in bags of 5 and chocolate bars come in packs of 4. Mr Smith needs to buy 79 individual sweets in total. How many different combinations of lollipops and chocolate bars could he buy? Can you write the equation that shows this problem?</li> <li>The volume of a cuboid is <math>152\text{cm}^3</math>. The length of the cuboid is 8cm. What could the width and depth of the cuboid be? <div style="text-align: center; margin: 10px auto;"> 8cm</div></li> </ul>
Value of x	Value of y																			
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