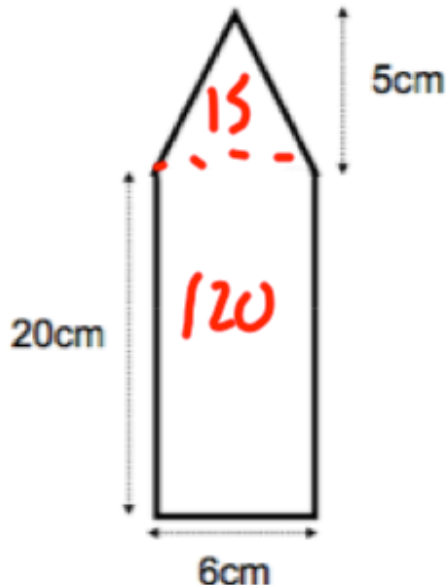
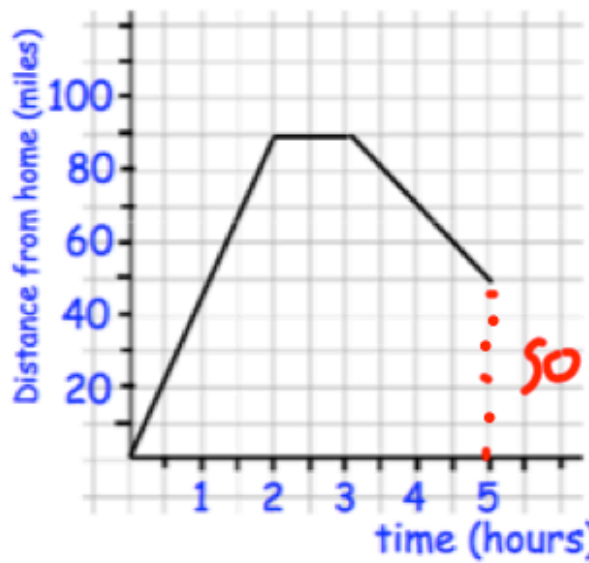


July 3rd	5-a-day	Numeracy
<p>List the first 10 prime numbers</p> <p>2 3 5 7 11 13 17 19 23 29</p>	<p>List the first 10 square numbers</p> <p>1 4 9 16 25 36 49 64 81 100</p>	
<p>Work out the cube of 5</p> <p><math>5 \times 5 \times 5 = 125</math></p>		
<p>given that <math>\frac{34\,888}{98} = 356</math></p>	<p>Work out</p> <p><math>356 \times 980</math></p> <p>348880</p>	
<p>Solve <math>5w = 30</math></p> <p><math>w = 6</math></p>	<p>Solve <math>w - 4 = 12</math></p> <p><math>w = 16</math></p>	
<p>Work out the range of these numbers</p> <p>-8      6      -5      2.5</p>	<p>-8   -5   2.5   6</p>	

July 3	5-a-day	Foundation
	<p>Calculate the area of the shape</p> <p><math>135\text{cm}^2</math></p>	
	<p>Work out <math>0.6 \div 10</math></p> <p><math>0.06</math></p>	
<p>Martin travels from home to his uncle's house. He stays there for a while then visits his friend Jack.</p> 	<p>How long did it take Martin to reach his Uncle's house?</p> <p><math>2\text{ hrs}</math></p>	
	<p>How long did he stay at his uncle's house?</p> <p><math>1\text{ hour}</math></p>	
<p>What was Martin's average speed on his journey to his uncle's?</p> <p><math>s = \frac{d}{t}</math>    <math>\frac{90}{2} = 45\text{ mph}</math></p>		<p>Martin reaches Jack's house 5 hours after leaving home. How far is Jack's house from Martin's?</p> <p><math>50\text{ miles}</math></p>

July 3	5-a-day	Higher								
<p>A biology textbook has mass 1.1kg to the nearest 100g. <math>1100</math>.</p> <p>What is the greatest possible mass of 10 books?  <math>1150 \times 10</math>  <math>11500g = 11.5kg</math></p>		<p>A shelf can safely hold 30kg of books.</p> <p>How many books can safely be held by the shelf?  <math>30 \div 1.15 = 26.087</math>  <math>\underline{\underline{26}}</math></p>								
<p>Simplify</p> $p^2 \times p^{-5}$ $p^{-3}$		<p>Simplify</p> $(p^2)^5$ $p^{10}$								
<p>Solve</p> $3x - 2y = 14$ $x + 2y = 10$ <hr/> $4x = 24$ $x = 6$	$6 + 2y = 10$ $2y = 4$ $y = 2$	<p>check</p> $3 \times 6 - 2 \times 2 = 14$ $18 - 4 = 14 \checkmark$ $x = 6 \quad y = 2$								
<p>Write down the equation of the line that is perpendicular to <math>y = 2x + 1</math> that passes through <math>(0, 4)</math></p> $y = -\frac{1}{2}x + 4$										
<table border="0"> <tr><td>Year 7</td><td>120</td></tr> <tr><td>Year 8</td><td>150</td></tr> <tr><td>Year 9</td><td>80</td></tr> <tr><td>Year 10</td><td>100</td></tr> </table> <p><math>\underline{\underline{450}}</math></p> <p>Mr Holland wants to survey 30 students.</p>	Year 7	120	Year 8	150	Year 9	80	Year 10	100		<p>If he uses a stratified sample, how many year 8 students will he select?</p> $\frac{150}{450} \times 30$ $\frac{1}{3} \times 30 = 10$
Year 7	120									
Year 8	150									
Year 9	80									
Year 10	100									