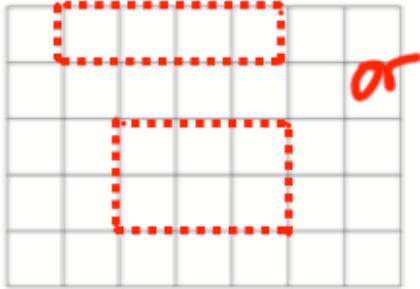
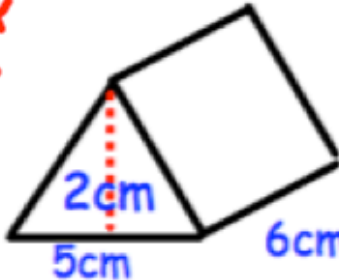
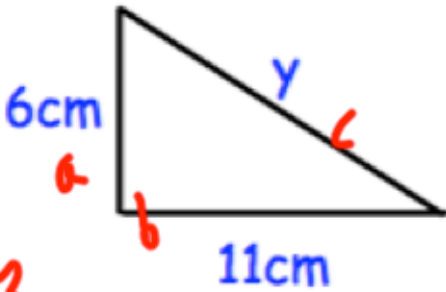
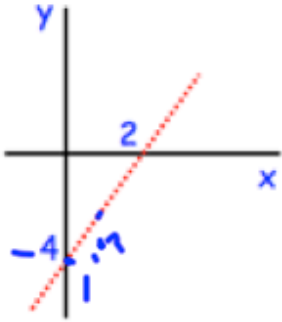


July 5th	5-a-day	Numeracy
<p>Cakes are sold in boxes of six. Caleb buys seven boxes for a party.</p> <p>five cakes are not eaten</p> <p>How many cakes were eaten at the party?</p>		$6 \times 7 = 42$ $42 - 5 = 37$
<p>Teagan buys one box of cakes for £2.76.</p> <p>She pays with exactly five coins.</p> <p>List the coins</p>		22 50p 20p 5p 1p
		<p>This is a centimetre grid.</p> <p>Draw a rectangle with perimeter 10cm</p>
<p>Convert 2.5 metres into centimetres</p> <p>250</p>		<p>Convert 3 kilometres into metres</p> <p>3000</p>
<p>A A C A A</p> <p>What fraction of the letters above are A?</p> <p><math>\frac{4}{5}</math></p>		<p>What percentage of the letters are A?</p> <p>80%</p>

July 5	5-a-day	Foundation
<p>Calculate the volume</p> <p><math>5 \times 2 = 10</math>  <math>10 \div 2 = 5 \text{ cm}^2</math> ← Area of Front.  <math>5 \times 6 = 30 \text{ cm}^3</math></p>		
<p>What is the reciprocal of 5?</p> <p><math>\frac{1}{5}</math></p>		
<p>Increase £350 by 20%</p> <p>10% £35.00 20% £70  <math>\pounds 357</math></p>	<p>Decrease \$50 by 3%</p> <p>1% = 0.5  3% = 1.5  <math>\\$ 48.50</math></p>	
<p>Find y</p> <p><math>a^2 + b^2 = c^2</math>  <math>6^2 + 11^2 = y^2</math>  <math>36 + 121 = y^2</math>  <math>157 = y^2</math>  <math>\sqrt{157}</math>  <math>y = 12.53</math></p>		
<p>Expand and simplify</p> <p><math>6a + 4(2a + 1) - 5a</math>  <math>6a + 8a + 4 - 5a</math></p>	<p><math>\underline{9a + 4}</math></p>	

July 5	5-a-day	Higher
<p>Factorise</p> $20x^2y + 15xy^3$	$5xy(4x + 3y^2)$	
<p>What is the probability of rolling a six, three times in a row on an ordinary dice?</p>	$\frac{1}{6} \times \frac{1}{6} \times \frac{1}{6} = \frac{1}{216}$	
	<p>Find the equation of the red line.</p> $y = 2x - 4$	
<p>Solve</p> $\frac{3x-1}{x+2} + \frac{2x-1}{x+4} = 3$ $\frac{(3x-1)(x+4) + (2x-1)(x+2)}{(x+2)(x+4)} = 3$	$5x^2 + 14x - 6 = 3(x+2)(x+4)$ $5x^2 + 14x - 6 = 3(x^2 + 6x + 8)$ $5x^2 + 14x - 6 = 3x^2 + 18x + 24$ $2x^2 - 4x - 30 = 0$ $x^2 - 2x - 15 = 0$	
<p><u>numerator</u></p> $3x^2 + 12x - x - 4 + 2x^2 + 4x - x - 2$ $5x^2 + 14x - 6$	$(x+3)(x-5) = 0$ $x = -3 \text{ or } x = 5$	