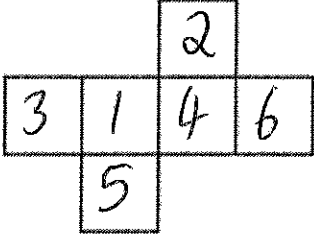
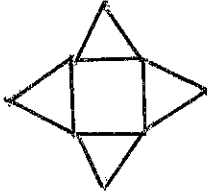
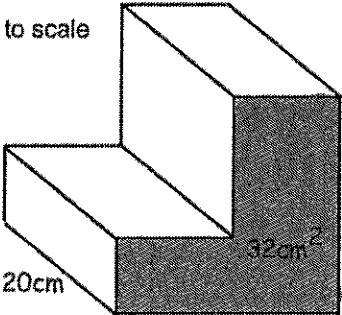
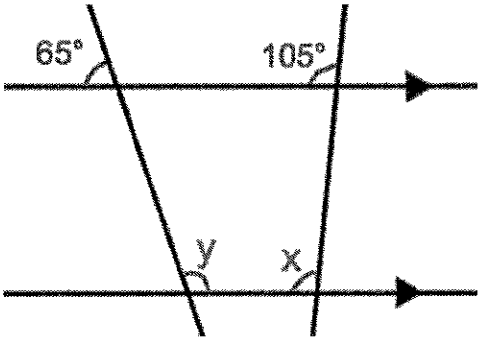
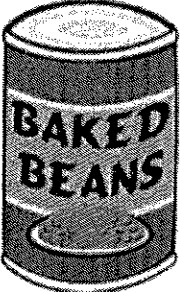


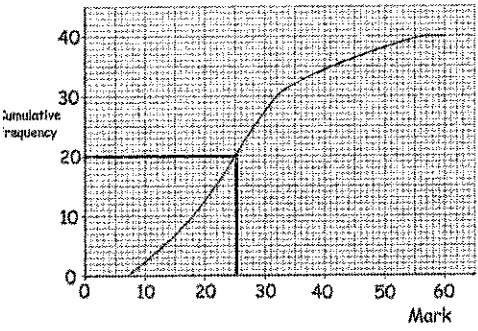
Name: \_\_\_\_\_

December 17th	5-a-day	Numeracy
<p>2000 - 1320</p> <p style="text-align: center;">680</p>	<p>77 + 121 + 34</p> $\begin{array}{r} 121 \\ 77 \\ 34 \\ + \quad 1 \\ \hline 232 \end{array}$	<p style="text-align: center;"><u>232</u></p>
<p>The numbers 1,2,3,4,5 and 6 are written on the faces of the cube.</p> <p>The numbers on the opposite faces add up to 7.</p> <p>Write the numbers on the net of the cube.</p>		
<p>Draw a net of a square based pyramid.</p>		
<p>A rectangle has area 18cm<sup>2</sup>.</p> <p>Write down one pair of possible values for its length and width.</p>	<p>length = <u>6</u> cm</p> <p>width = <u>3</u> cm</p>	
<p>Work out the perimeter of your rectangle.</p> <p style="text-align: center;"><math>6+6+3+3 = 18m</math></p>		

Name: \_\_\_\_\_

December 17	5-a-day	Foundation
<p>Not to scale</p> 	<p>Find the volume of the prism.</p> $32 \times 20 = 640 \text{ cm}^3$	
$\frac{5}{9} + \frac{1}{2} = \frac{10}{18} + \frac{9}{18} = \frac{19}{18}$ $1\frac{1}{18}$	$\frac{4}{7} \times \frac{3}{8} = \frac{12}{56} = \frac{3}{14}$	
	<p>Find x.</p> $105^\circ$ <p>Find y.</p> $115^\circ$	
	<p>The radius of the can is 2cm. The height of the can is 7cm</p> <p>Find the volume of the can.</p> $\pi \times 2^2 \times 7 = \pi \times 4 \times 7$ $= 28\pi \text{ cm}^3$ <p>or <math>87.96 \text{ cm}^3</math></p>	
<p>Factorise</p> $4y^2 - 8y = 4y(y - 2)$	<p>Expand and simplify</p> $(y + 4)(y + 5)$ $y^2 + 9y + 20$	

Name: \_\_\_\_\_

December 17	5-a-day	Higher
<p>Solve the inequality</p> $5x \leq x + 9$ $4x \leq 9$ $x \leq \frac{9}{4}$ $x \leq 2.25$	<p>x is a whole number.</p> <p>Write down the largest value of x that satisfies the inequality.</p> <p style="text-align: center;">2</p>	
<p>Write <math>4.3 \times 10^{-7}</math> as an ordinary number.</p> <p style="text-align: center;">0.00000043</p>	<p>Write 940000 in standard form.</p> <p style="text-align: center;"><math>9.4 \times 10^5</math></p>	
	<p>Estimate the median mark.</p> $\frac{40}{2} = 20$ <p style="text-align: center;">25 marks</p>	
<p>Convert <math>0.39393939\dots</math> to a fraction</p> $x = 0.3939\dots$ $100x = 39.3939\dots$	$100x = 39.3939\dots$ $x = 0.3939\dots$ <hr style="width: 50%; margin-left: 0;"/> $99x = 39$ $x = \frac{39}{99} = \frac{13}{33}$	
<p>Simplify fully.</p> $\sqrt{200} - \sqrt{72}$	$\sqrt{100} \times \sqrt{2} - \sqrt{36} \times \sqrt{2}$ $10\sqrt{2} - 6\sqrt{2}$ $= 4\sqrt{2}$	