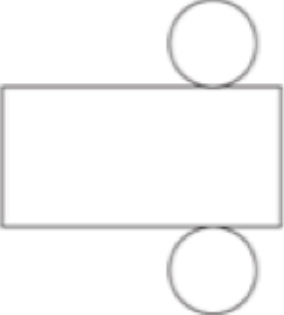
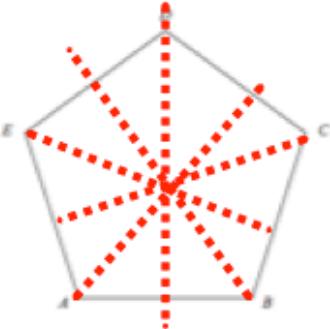

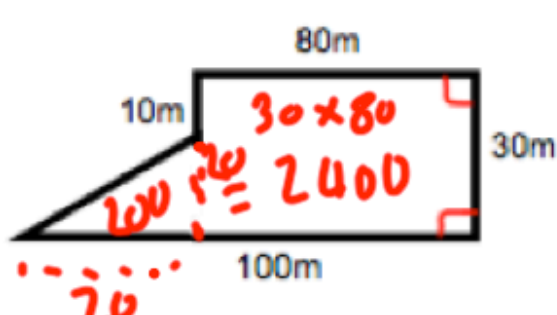
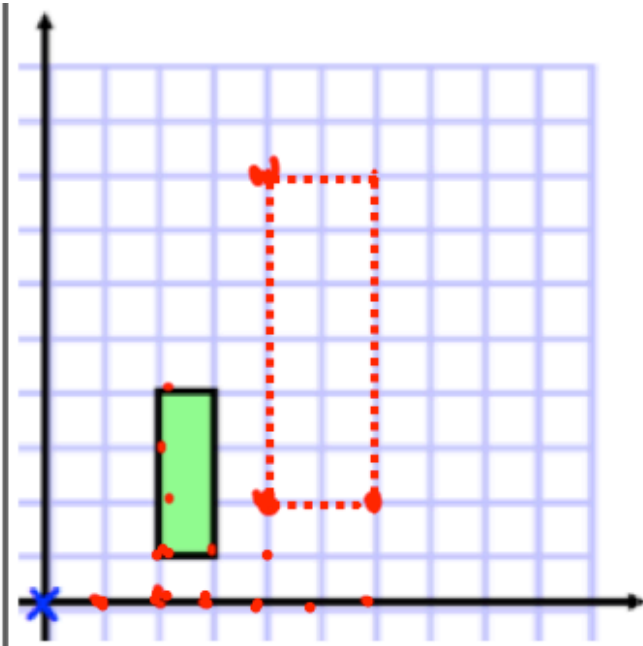
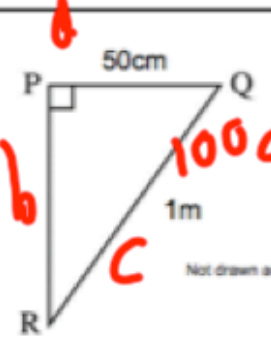


June 22nd	5-a-day	Numeracy																
<table border="1"><tr><td>Nottingham</td><td></td><td></td><td></td></tr><tr><td>101</td><td>Manchester</td><td></td><td></td></tr><tr><td>158</td><td>56</td><td>Liverpool</td><td></td></tr><tr><td>446</td><td>346</td><td>348</td><td>Glasgow</td></tr></table>	Nottingham				101	Manchester			158	56	Liverpool		446	346	348	Glasgow	What is the distance between Manchester and Glasgow?	346 miles
Nottingham																		
101	Manchester																	
158	56	Liverpool																
446	346	348	Glasgow															
Write down the names of the two cities which are least distance apart?	Manchester & Liverpool																	
	This is the net for which solid?	Cylinder																
Simplify $3f + 2g - f + 5g$		$2f + 7g$																
	Draw all the lines of symmetry on the pentagon.	What is the order of rotational symmetry? 5																

June 22	5-a-day	Foundation
<p>Write 50 as a product of primes, in index form.</p> <p style="text-align: center;">50</p> 	<p style="text-align: center;">$2 \times 5 \times 5$</p> <p style="text-align: center;">2×5^2</p>	
<p>Calculate the area of the shape.</p> <p style="text-align: center;">2600 m^2</p>		



Enlarge the rectangle, by scale factor 2 from the centre of enlargement (0,0)

	<p>Calculate the length of PR</p> <p style="text-align: center;">$a^2 + b^2 = c^2$</p> <p style="text-align: center;">$50^2 + b^2 = 100^2$</p> <p style="text-align: center;">$2500 + b^2 = 10000$</p> <p style="text-align: center;">$b^2 = 7500$</p> <p style="text-align: center;">$b = \sqrt{7500}$</p> <p style="text-align: center;">$b = 86.6 \text{ cm}$</p>
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June 22	5-a-day	Higher
<p>The rope on a roll is $4\frac{1}{2}$ m long.</p> <p>Jenny wants 10 pieces of rope $1\frac{3}{8}$ m long.</p> <p>How many rolls of rope are needed?</p>	$10 \times \frac{13}{8} = \frac{130}{8} = \frac{65}{4}$ $\frac{65}{4} \div \frac{9}{2} = \frac{65}{4} \times \frac{2}{9} = \frac{65}{18}$ $3\frac{11}{18} \rightarrow 4 \text{ rolls}$	
<p>Solve</p> $x^2 + 5x + 4 = 0$ $(x+4)(x+1) = 0$	$x = -4$ <p>or</p> $x = -1$	
<p>Work out</p> 4^0	<p>Evaluate</p> $27^{\frac{2}{3}}$	<p>1</p> <p>9</p>
<p>Simplify</p> $2\sqrt{2} \times 3\sqrt{18}$	$6\sqrt{36}$ $6 \times 6 = 36$	
<p>What is the reciprocal of $2.5454545454\dots$?</p> $x = 2.5454\dots$ $100x = 254.5454\dots$ $99x = 252$	$x = \frac{252}{99}$ <p>reciprocal $\rightarrow \frac{99}{252} = \frac{11}{28}$</p>	