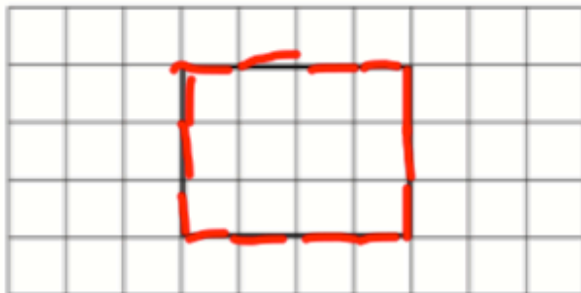
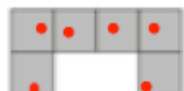
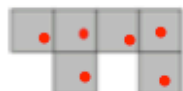
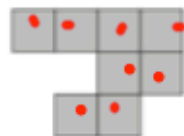
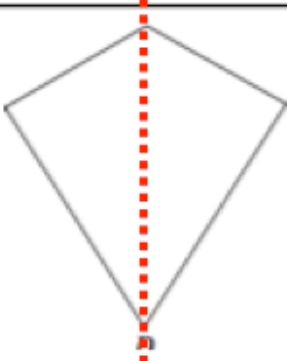
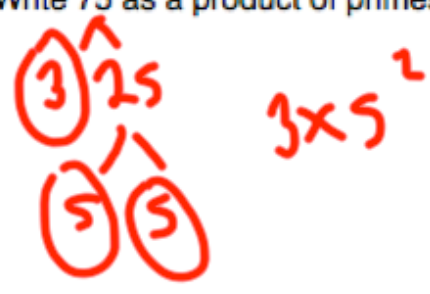

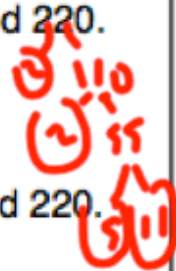
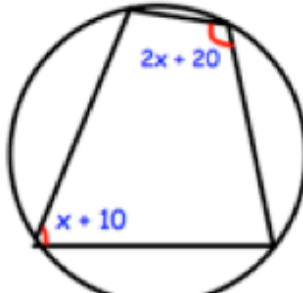
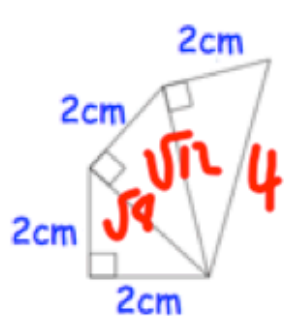


July 14th	5-a-day	Numeracy
	<p>The rectangle is drawn on a centimetre grid.</p> <p>What is its perimeter?</p> <p>14cm</p>	
<p>Convert 4 metres into centimetres</p> <p>400cm</p>	<p>Convert 8 kilometres into metres</p> <p>8000m</p>	
<p>A</p>  <p>B</p>  <p>C</p>  <p>6cm<sup>2</sup> 6cm<sup>2</sup> 8cm<sup>2</sup></p>	<p>Which of these shapes have the same area?</p> <p>A &amp; B</p>	
	<p>Draw any lines of symmetry onto the kite.</p>	
<p>There are 130 students in Year 11.</p> <p>The number of pupils in Year 11 is one-sixth of the total number of pupils in the school.</p>	<p>Work out the total number of pupils in the school.</p> <p>130 x 6 = 780</p>	

July 14	5-a-day	Foundation																
<p>Arrange in order, from smallest to largest.</p> $\frac{1}{3} \quad \frac{7}{12} \quad \frac{3}{4}$	$\frac{4}{12} \quad \frac{7}{12} \quad \frac{9}{12}$ $\frac{1}{3}, \frac{7}{12}, \frac{3}{4}$																	
<p>Simplify</p> $7h + 5k + h - 3k$ $8h + 2k$																		
<p>Complete the table for <math>y = 2x^2 + 1</math></p>																		
<table border="1" style="width: 100%; text-align: center;"> <tr> <td>x</td> <td>-3</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>y</td> <td>19</td> <td>9</td> <td>3</td> <td>1</td> <td>3</td> <td>9</td> <td>19</td> </tr> </table>			x	-3	-2	-1	0	1	2	3	y	19	9	3	1	3	9	19
x	-3	-2	-1	0	1	2	3											
y	19	9	3	1	3	9	19											
$\frac{49.1 \times 8.08}{3.98} \approx$	<p>Work out an estimate</p> $\frac{50 \times 8}{4} = \frac{400}{4} = 100$																	
	<p>Calculate the surface area.</p> $600 \text{ cm}^2$																	

July 14	5-a-day	Higher
<p>Write 75 as a product of primes.</p> 	<p>75 = 3 × 5 × 5 220 = 2 × 2 × 5 × 11</p> 	
<p>Work out the LCM of 75 and 220.</p> <p>3300</p> <p>Work out the HCF of 75 and 220.</p> <p>5</p> 		
	<p>Find x.</p> $2x + 20 + x + 10 = 360$ $3x + 30 = 360$ $3x = 330$ $x = 110^\circ$	
	<p>A logo is formed from 3 smaller triangles.</p> <p>What is the perimeter of the logo?</p> $2 + 2 + 2 + 2 + 4 = 12 \text{ cm}$	
$2^2 + (\sqrt{9})^2 = x^2$ $4 + 9 = x^2$ $x = \sqrt{12}$		$(\sqrt{12})^2 + 2^2 = x^2$ $12 + 4 = x^2$ $x = \sqrt{16} = 4$