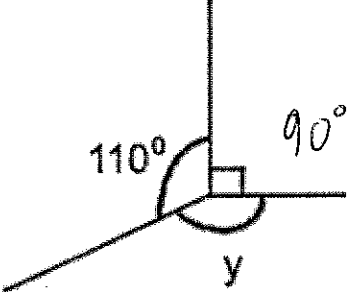
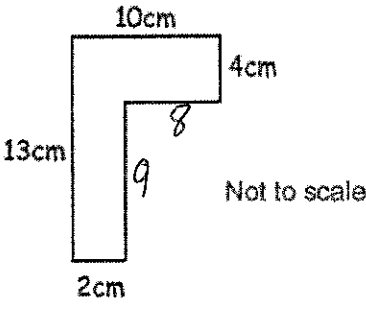
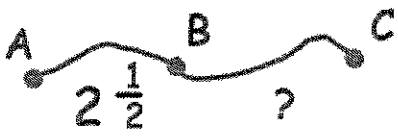
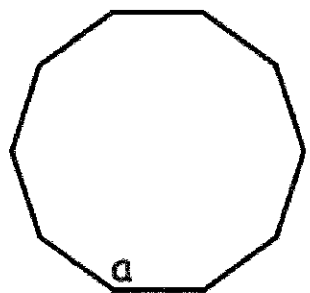


Name: _____

December 29th	5-a-day	Numeracy
<p>From this list of numbers</p> <p>8 9 10 11 12 13 14</p> <p>Write down a multiple of 7.</p> <p>14</p>	<p>Write down a square number.</p> <p>9</p>	
<p>Write down a prime number.</p> <p>11 or 13</p>	<p>Write down a cube number.</p> <p>8</p>	
	<p>Work out the size of the angle y.</p> <p>160°</p>	
<p>If $x = 5$</p> <p>Work out the value of $4x$</p> <p>20</p>	<p>If $x = 3$ and $y = 9$</p> <p>Work out $2x - y$</p> <p>$6 - 9 = -3$</p>	
	<p>Find the perimeter of this shape.</p> <p>$10 + 13 + 2 + 9 + 8 + 4$</p> <p>$= 46 \text{ cm}$</p>	

Name: _____

December 29	5-a-day	Foundation
<p>Simplify</p> <p>15:10</p> <p style="text-align: center;">$3:2$</p>	<p>Simplify</p> <p>35:20</p> <p style="text-align: center;">$7:4$</p>	
<p>Factorise</p> <p>$8y + 12w + 16s$</p> <p style="text-align: center;">$4(2y + 3w + 4s)$</p>		
 <p>The distance from A to C is $3\frac{2}{3}$ miles</p> <p style="margin-left: 150px;">$3\frac{2}{3} - 2\frac{1}{2}$</p>	<p>What is the distance from B to C?</p> $\frac{11}{3} - \frac{5}{2} = \frac{22}{6} - \frac{15}{6} = \frac{7}{6}$ <p style="text-align: center;">$1\frac{1}{6}$</p>	
<p>Expand and simplify</p> <p>$(y - 5)(y - 5)$</p> <p style="text-align: center;">$y^2 - 10y + 25$</p>		
	<p>Shown is a regular decagon.</p> <p>Find the size of each interior angle</p> <p style="text-align: center;">144°</p>	

Name: _____

December 29	5-a-day	Higher
<p>The size of an interior angle, for a regular polygon, is 178°.</p> <p>How many sides does it have? <i>exterior 2°</i></p>		<p>$360^\circ \div 2^\circ = 180$</p> <p><i>180 sides</i></p>
<p>Write 713000 in standard form</p> <p><i>7.13×10^5</i></p>		<p>Write 4 billion in standard form.</p> <p><i>$4,000,000,000$</i></p> <p><i>4×10^9</i></p>
<p>Solve</p> <p>$\frac{x}{4} = \frac{x-1}{2x-3}$ $a=2$ $\phantom{\frac{x}{4} = \frac{x-1}{2x-3}}$ $b=-7$ $\phantom{\frac{x}{4} = \frac{x-1}{2x-3}}$ $c=4$</p> <p><i>$\frac{7 \pm \sqrt{49-32}}{4} = \frac{7 \pm \sqrt{17}}{4}$</i></p>	<p>$x(2x-3) = 4(x-1)$</p> <p>$2x^2 - 3x = 4x - 4$</p> <p>$2x^2 - 7x + 4 = 0$</p> <p>xxxxxxxxxxxxxxxxxxxx</p> <p><i>$x = 2.78$ or $x = 0.72$</i></p>	
<p>$s = ut + \frac{1}{2}at^2$</p> <p><i>$s - ut = \frac{1}{2}at^2$</i></p> <p><i>$2s - 2ut = at^2$</i></p>		<p>Make a the subject</p> <p><i>$a = \frac{2(s-ut)}{t^2}$</i></p>
<p>Simplify $\sqrt{800}$</p> <p><i>$\sqrt{400} \times \sqrt{2}$</i></p> <p><i>$20\sqrt{2}$</i></p>		