
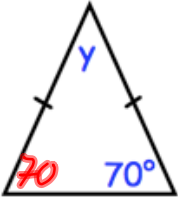




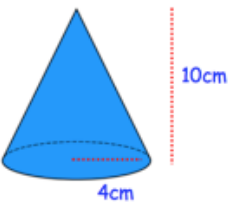
Name: _____

September 15th	5-a-day	Numeracy														
<p>A clock shows this time, in the afternoon.</p> 	<p>Write as 24 hour time.</p> <p style="color: red; font-size: 1.2em;">17:15</p>															
<p>6.7×100 670</p> <p>85.1×100 8510</p>	<p>0.07×100 7</p> <p>20.016×100 2001.6</p>															
	<p>Find the size of y.</p> <p style="color: red; font-size: 1.2em;">40°</p> <p>What type of triangle is shown?</p> <p style="color: red; font-size: 1.2em;">isosceles</p>															
<p>Simplify</p> <p>$2 \times 4y$ 8y</p>	<p>Simplify</p> <p>$a \times a \times a$ a³</p>															
<p>Draw a pictogram to represent:</p> <table border="0" style="margin-left: 20px;"> <thead> <tr> <th>Fruit</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Apple</td> <td>8</td> </tr> <tr> <td>Banana</td> <td>6</td> </tr> <tr> <td>Mango</td> <td>5</td> </tr> </tbody> </table>	Fruit	Frequency	Apple	8	Banana	6	Mango	5	<p style="color: red; font-size: 1.2em;"> <table border="0" style="margin-left: 20px;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">A</td> <td>OOOO</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">B</td> <td>OOO</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">M</td> <td>OOO</td> </tr> </table> </p> <p style="color: red; font-size: 1.2em; margin-left: 40px;">O means 2</p>	A	OOOO	B	OOO	M	OOO	
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Name: _____

September 15	5-a-day	Foundation
<p>Estimate</p> $\frac{793 \times 2.06}{0.395}$		$\frac{800 \times 2}{0.4} = \frac{1600}{0.4}$ $\frac{16000}{4} = 4000$
<p>The ratio of red beads to green beads on a necklace is 3:7.</p> <p>On large necklace there are 28 green beads.</p> <p>How many red beads are there?</p>		<p>12</p>
<p>A medium necklace has 10 red beads and 20 green beads.</p> <p>James has 62 red beads and 97 green beads.</p> <p>How many medium necklaces can be made?</p>		<p>10:20 20:40 30:60 40:80 50:100</p> <p>(4)</p>
$\frac{3}{5} - \frac{1}{4} \quad \frac{12}{20} - \frac{5}{20}$		$\frac{7}{20}$
<p>Martin drove 13 miles in 15 minutes.</p> <p>What was his average speed?</p>		<p>13 x 4</p> <p>52 mph</p>

Name: _____

September 15	5-a-day	Higher
	<p>Find x and y.</p> <p>$x = 12\text{cm}$</p> <p>$y = 4\text{cm}$</p>	
<p>Factorise $x^2 + 2x - 8$</p> <p>$(x+4)(x-2)$</p>	<p>Factorise $x^2 - 81$</p> <p>$(x-9)(x+9)$</p>	
 <p>Calculate bearing of B from A.</p>	<p>$\tan^{-1} \frac{5}{40} = 7.125$</p> <p>$097^\circ$</p> <p>$097.125^\circ$</p>	
<p>A is directly proportional to the cube root of B.</p> <p>When $A = 90$, $B = 27$.</p> <p>Find A in terms of B.</p> <p>$A \propto \sqrt[3]{B}$</p> <p>$A = k\sqrt[3]{B}$</p> <p>$90 = k \times 3$</p>	<p>$k = 30$</p> <p>$A = 30 \times \sqrt[3]{B}$</p>	
	<p>Calculate the volume of the cone.</p> <p>$\frac{1}{3}(\pi \times 4^2) \times 10$</p> <p>$167.55\text{cm}^3$</p>	