


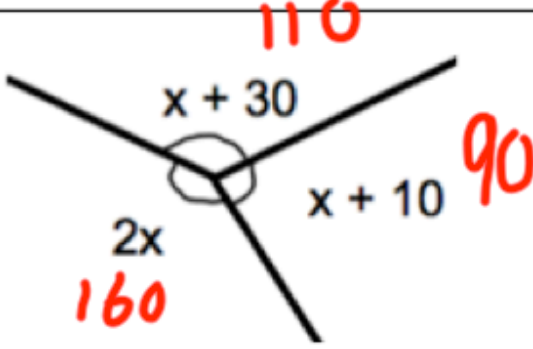
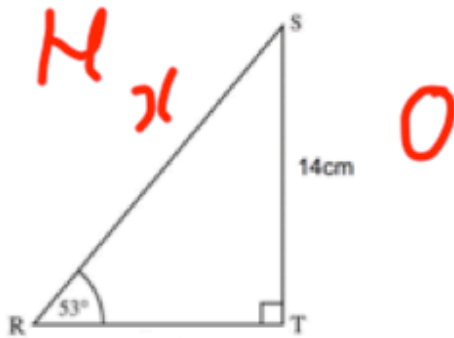
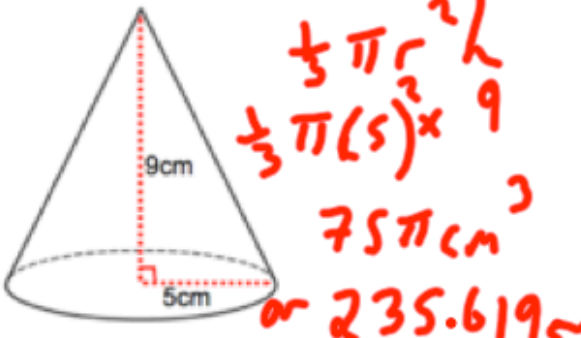


July 12th	5-a-day	Numeracy								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">4 orange juices at £2 each</td> <td style="text-align: right;">£ 8.00</td> </tr> <tr> <td>3 sandwiches at £2.50 each</td> <td style="text-align: right;">£ 7.50</td> </tr> <tr> <td>4 chocolate bars at 45p each</td> <td style="text-align: right;">£ 1.80</td> </tr> <tr> <td style="text-align: center;"><b>Total</b></td> <td style="text-align: right;">£ 17.30</td> </tr> </table>			4 orange juices at £2 each	£ 8.00	3 sandwiches at £2.50 each	£ 7.50	4 chocolate bars at 45p each	£ 1.80	<b>Total</b>	£ 17.30
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 <p>A pizza is cut into eight equal slices. Martin eats 2 of them</p>	<p>What fraction of the pizza did Martin eat? Give your answer in its simplest form.</p> $\frac{2}{8} = \frac{1}{4}$									
<p>Write 61% as a decimal</p> $0.61$	<p>Write 0.17 as a percentage</p> $17\%$									
<p>3      9      27      81</p> <p>What is the rule for carrying on the sequence?</p> $\times \text{ by } 3$	<p>Explain why 8028 is not a term in this sequence.</p> $8028 \text{ 'is even'}$ $\text{odd} \times 3 = \text{odd} \dots$									
 $7 \times 5 = 35$ $\begin{array}{r} 35 \\ \times 3 \\ \hline 105 \end{array}$	<p>Multiply these one digit numbers together.</p> $8 \times 105 = 840$									

July 12	5-a-day	Foundation
<p>6cm</p>  <p>4cm</p>	<p>The rectangle is enlarged by scale factor 3.</p> <p>What would the new length and width be?</p>	<p>18cm      12cm</p>
<p>The angles in a quadrilateral are in the ratio 3:1:4:2</p> <p>What is the size of each angle?</p>	<p><math>360 \div 10 = 36^\circ</math></p> <p><math>3 \times 36 = 108</math></p> <p><math>1 \times 36 = 36</math></p> <p><math>4 \times 36 = 144</math></p> <p><math>2 \times 36 = 72</math></p>	<p><math>3 + 1 + 4 + 2 = 10</math></p>
<p><math>R = 8 - \sqrt{S}</math></p> <p>Calculate R if S = 9</p>	<p><math>R = 8 - \sqrt{9}</math></p> <p><math>= 8 - 3</math></p> <p><math>= 5</math></p>	
<p>Expand and simplify</p> <p><math>4(x^2 + 5) - 3(x^2 - 1)</math></p>	<p><math>x^2 + 23</math></p>	<p><math>4x^2 + 20 - 3x^2 + 3</math></p>
<p>£500 is invested at 10% interest for two years. How much money will there be after 2 years?</p>	<p>£550      10% = £55</p> <p>£605 - after 2 years</p>	<p>£500      10% = £50</p> <p>£550 - after 1 year</p>

July 12	5-a-day	Higher
	<p>Find the size of each angle.</p> $4x + 40 = 360$ $4x = 320$ $x = 80$	
<p>Factorise fully.</p> $36a^2 - 4y^2$ $4(a^2 - y^2)$	$4(3a - y)(3a + y)$	
	<p>Find the length of RS.</p> $\frac{14}{\sin 53} = 17.53 \text{ cm}$	
	<p>A cube has the same volume as the cone shown.</p> <p>Find the side length of the cube.</p> $x = \sqrt[3]{235.619}$ $x = 6.176 \text{ cm}$	
<p>Simplify</p> $\sqrt{200}$ $10\sqrt{2}$	<p>Work out</p> $\sqrt{200} + \sqrt{50}$ $10\sqrt{2} + 5\sqrt{2}$ $15\sqrt{2}$	$\sqrt{50} = \sqrt{25 \times 2} = 5\sqrt{2}$