
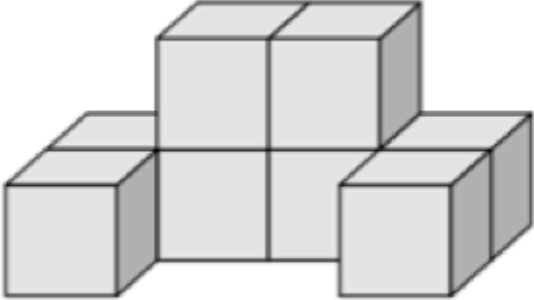
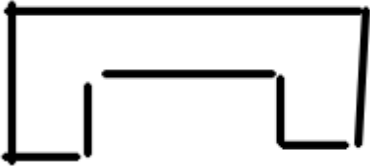

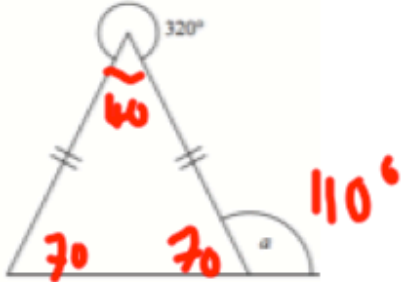
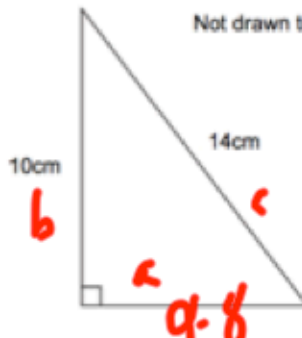


July 8th	5-a-day	Numeracy
<p>Name this type of triangle</p> <p><i>isosceles.</i></p>		
<p>Write these numbers in order of size. Start with the largest</p> <p>4301 4290 4310</p> <p><i>4310 4301 4290</i></p>	<p>Work out the sum of 4301, 4290 and 4310</p> $ \begin{array}{r} 4301 \\ 4290 \\ + 4310 \\ \hline 12901 \end{array} $	
<p>Here is a sequence of numbers</p> <p>9 13 17 21 <i>25 29</i> ...</p>	<p>What is the rule for continuing the sequence?</p> <p><i>+ 4 add 4 each time</i></p>	
	<p>Shown is the view from the front of a shape.</p>	
<p>Draw the plan view (view from above)</p> 	<p>Draw the side elevation (view from the side)</p> 	

July 8	5-a-day	Foundation									
<p>Work out the cube root of 125</p> <p style="text-align: center;">5</p>											
	<p>Find a</p> <p style="text-align: center;">110°</p>										
<table border="1" data-bbox="177 999 727 1301"><thead><tr><th></th><th>French</th><th>Art</th></tr></thead><tbody><tr><th>Female</th><td>8</td><td>3</td></tr><tr><th>Male</th><td>7</td><td>3</td></tr></tbody></table>		French	Art	Female	8	3	Male	7	3	<p>A student is chosen at random.</p> <p>What is the probability they study French?</p> <p style="text-align: center;">$\frac{15}{21} = \frac{5}{7}$</p>	
	French	Art									
Female	8	3									
Male	7	3									
<p>What is the size of each interior angle of a regular pentagon?</p> <p style="text-align: center;">108°</p>	<p>What is the size of each exterior angle of a regular pentagon?</p> <p style="text-align: center;">72°</p>										
<p>What is the size of each interior angle of a regular hexagon?</p> <p style="text-align: center;">120°</p>	<p>What is the size of each exterior angle of a regular hexagon?</p> <p style="text-align: center;">60°</p>										

July 8	5-a-day	Higher																								
 <p style="text-align: center;">Not drawn to scale</p>	<p>Find the area of this triangle.</p> $a^2 + 10^2 = 14^2$ $a^2 + 100 = 196$ $a^2 = 96$ $a = \sqrt{96} = 9.8$ $\frac{1}{2} (9.8) \times 10$ $= \frac{1}{2} (98)$ $= 49 \text{ cm}^2$																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">length, L, cm</th> <th style="width: 25%;">Frequency</th> <th style="width: 25%;">mul/print</th> <th style="width: 25%;">fx</th> </tr> </thead> <tbody> <tr> <td>$0 < L \leq 10$</td> <td>21</td> <td>5</td> <td>105</td> </tr> <tr> <td>$10 < L \leq 20$</td> <td>11</td> <td>15</td> <td>165</td> </tr> <tr> <td>$20 < L \leq 30$</td> <td>31</td> <td>25</td> <td>775</td> </tr> <tr> <td>$30 < L \leq 40$</td> <td>12</td> <td>35</td> <td>420</td> </tr> <tr> <td>$40 < L \leq 50$</td> <td>25</td> <td>45</td> <td>1125</td> </tr> </tbody> </table>	length, L, cm	Frequency	mul/print	fx	$0 < L \leq 10$	21	5	105	$10 < L \leq 20$	11	15	165	$20 < L \leq 30$	31	25	775	$30 < L \leq 40$	12	35	420	$40 < L \leq 50$	25	45	1125	<p>What is the modal interval?</p> <p style="color: red; font-size: 1.5em;">$20 < L \leq 30$</p>	
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<p>M is directly proportional to the square of A.</p> <p>When $M = 200$, $A = 2$.</p> <p>Find M when $A = 4$.</p>	$M = 50A^2$ $M = 50 \times 4^2$ $= 800$																									
<p>Simplify</p> $\frac{a^{1/5} \times a^{2/3}}{a^{3/5}}$	$a^{1/5} \times a^{2/3} = a^{13/15}$ $a^{13/15} \div a^{3/5} = a^{4/15}$ $\frac{1}{5} + \frac{2}{3} = \frac{3}{15} + \frac{10}{15} = \frac{13}{15}$ $\frac{13}{15} - \frac{3}{5} = \frac{13}{15} - \frac{9}{15} = \frac{4}{15}$																									