
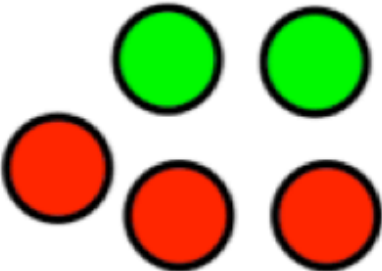
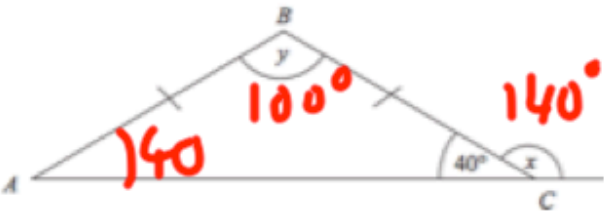
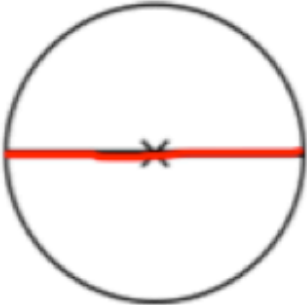
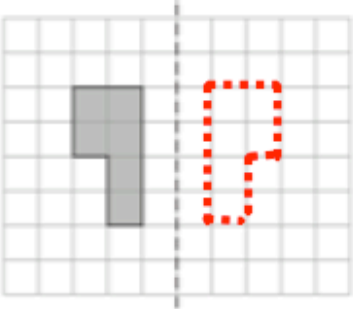
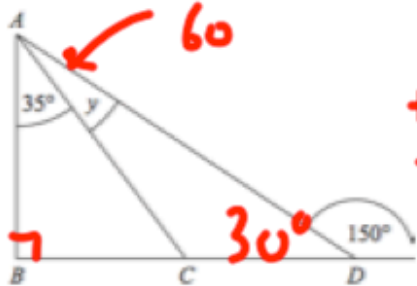


June 20th	5-a-day	Numeracy
 <p>What fraction of this shape is shaded? Give your answer in its simplest form.</p>		$\frac{3}{4}$
	<p>Greg picks a bead at random.</p> <p>What is the probability of him selecting a red bead?</p>	$\frac{3}{5}$
<p>Simplify</p> $2c + 3c + 4c$ $9c$	<p>Simplify</p> $f \times g \times 3$ $3fg$	
<p>Simplify</p> $x^2 + x^2 + x^2$ $3x^2$		
	<p>Find x</p> 140° <p>Find y</p> 100°	

June 20	5-a-day	Foundation
<p>The nth term of a sequence is $20 - 5n$</p> <p>Work out the first 5 terms</p> <p style="color: red; font-size: 1.5em;">15 10 5 0 -5</p>		
	<p>What part of the circle is shown? (in red)</p> <p style="color: red; font-size: 1.5em;">Diameter</p>	
<p>Find the lowest common multiple of 5 and 12</p> <p style="color: red; font-size: 2em;">60</p>		
	<p>Reflect the shape in the mirror line.</p>	
 <p style="color: red; font-size: 1.5em;">60</p> <p style="color: red; font-size: 1.5em;">90 + 30 ----- 120</p>	<p>Calculate y</p> <p style="color: red; font-size: 1.5em;">180 - 120 ----- 60</p>	<p style="color: red; font-size: 1.5em;">60 - 35 ----- 25°</p>

June 20	5-a-day	Higher																					
<p>Use trial and improvement to solve</p> $x^2 + x = 25$ <p>to one decimal place.</p>	<table border="1"> <thead> <tr> <th>x</th> <th>$x^2 + x$</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>20</td> <td>too low</td> </tr> <tr> <td>5</td> <td>30</td> <td>too high</td> </tr> <tr> <td>4.4</td> <td>23.76</td> <td>too low.</td> </tr> <tr> <td>4.5</td> <td>24.75</td> <td>too low.</td> </tr> <tr> <td>4.6</td> <td>25.76</td> <td>too high</td> </tr> <tr> <td>4.55</td> <td>25.2525</td> <td>too high.</td> </tr> </tbody> </table>	x	$x^2 + x$	Comment	4	20	too low	5	30	too high	4.4	23.76	too low.	4.5	24.75	too low.	4.6	25.76	too high	4.55	25.2525	too high.	
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<p>The size of an interior angle, for a regular polygon, is 176°.</p> <p>How many sides does it have?</p> <p>exterior angle 4°</p>	<p>$360 \div 4 = 90$</p> <p>90 sides</p>																						
<p>Solve</p> $\frac{x}{4} \neq \frac{x-1}{2x-3}$ <p>$a=2$ $b=-7$ $c=4$</p>	$x(2x-3) = 4(x-1)$ $2x^2 - 3x = 4x - 4$ $2x^2 - 7x + 4 = 0$ $x = \frac{7 \pm \sqrt{49 - 32}}{4}$	$x = \frac{7 + \sqrt{17}}{4} = 2.78$ <p>or</p> $x = \frac{7 - \sqrt{17}}{4} = 0.72$																					
$s = ut + \frac{1}{2}at^2$ $s - \frac{1}{2}at^2 = ut$	<p>Make u the subject</p> $u = \frac{s - \frac{1}{2}at^2}{t}$ $u = \frac{s}{t} - \frac{1}{2}at$																						