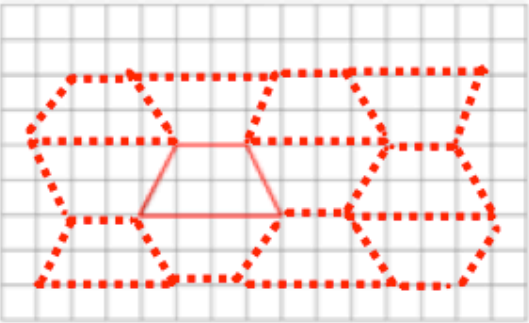
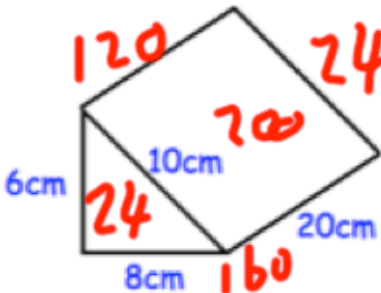
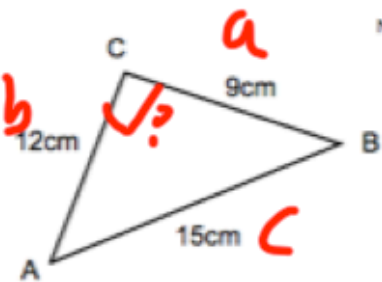
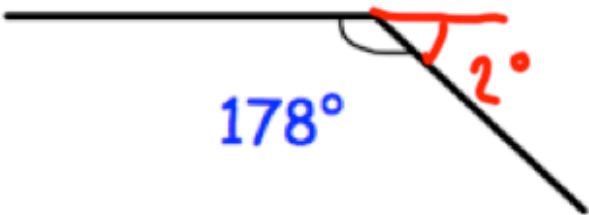
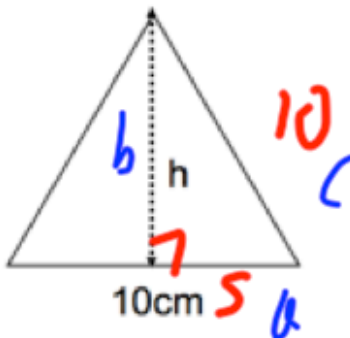
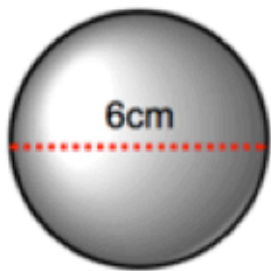


July 4th	5-a-day	Numeracy												
<p>Work out $638 + 873$</p> $\begin{array}{r} 638 \\ 873 \\ \hline 1511 \end{array}$	<p>$1200 - 484$</p> $\begin{array}{r} 1200 \\ - 484 \\ \hline 716 \end{array}$													
<p>$108 \div 4$</p> $4 \overline{)108}$ <p>27</p>	<p>Work out $\frac{3}{8}$ of 48</p> $48 \div 8 = 6$ $6 \times 3 = 18$													
<table border="1"> <thead> <tr> <th data-bbox="188 947 592 1025">Fraction</th> <th data-bbox="592 947 995 1025">Decimal</th> <th data-bbox="995 947 1399 1025">Percentage</th> </tr> </thead> <tbody> <tr> <td data-bbox="188 1025 592 1178">$\frac{9}{100}$</td> <td data-bbox="592 1025 995 1178">0.09</td> <td data-bbox="995 1025 1399 1178">9%</td> </tr> <tr> <td data-bbox="188 1178 592 1330">$\frac{15}{100} = \frac{3}{20}$</td> <td data-bbox="592 1178 995 1330">0.15</td> <td data-bbox="995 1178 1399 1330">15%</td> </tr> <tr> <td data-bbox="188 1330 592 1482">$\frac{4}{5}$</td> <td data-bbox="592 1330 995 1482">0.8</td> <td data-bbox="995 1330 1399 1482">80%</td> </tr> </tbody> </table>			Fraction	Decimal	Percentage	$\frac{9}{100}$	0.09	9%	$\frac{15}{100} = \frac{3}{20}$	0.15	15%	$\frac{4}{5}$	0.8	80%
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$\frac{15}{100} = \frac{3}{20}$	0.15	15%												
$\frac{4}{5}$	0.8	80%												
<p>Arrange in order, starting with the smallest.</p> <p>0.75 0.8 0.335</p> <p>0.335 0.75 0.8</p>	<p>Work out $638 + 873$</p> <p>0.1×0.2</p> <p>0.02</p>													

July 4	5-a-day	Foundation
<p>Solve $7x + 13 = 9x + 1$</p> $13 = 2x + 1$ $12 = 2x$ $x = 6$		
<p>The diameter of a circle is 5.5cm.</p> <p>Calculate the circumference of a circle to 1 decimal place.</p>	$\pi \times 5.5$ $= 17.3\text{cm}$	
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Show how the trapezium can tessellate.</p> </div> </div>		
	<p>Calculate the surface area</p> 200 160 120 24 24 <hr style="width: 50px; margin-left: 0;"/> 528 528cm^2	
<p>Is this triangle right-angled? <i>yes</i></p> $a^2 + b^2 = c^2$ $9^2 + 12^2 = 15^2$ $81 + 144 = 225$ $225 = 225 \checkmark$	 <p style="text-align: right; font-size: small;">Not drawn accurately</p>	

July 4	5-a-day	Higher
 <p>Shown is one angle from a regular polygon.</p>		<p>How many sides does it have?</p> $360 \div 2 = 180$ <p>sides</p>
		<p>Find the height of this equilateral triangle.</p> $a^2 + b^2 = c^2$ $5^2 + b^2 = 10^2$ $25 + b^2 = 100$ $b = \sqrt{75}$ $b = 8.66$
<p>Simplify fully</p> $\frac{W}{2} \div \frac{W}{6}$		$\frac{W}{2} \times \frac{6}{W} = \frac{6\cancel{W}}{2\cancel{W}} = 3$
 <p>Find the volume of this sphere.</p>		$\frac{4}{3} \pi r^3$ $\frac{4}{3} \times \pi \times 6^3$ $= 36\pi$ $= 113.1 \text{ cm}^3$
<p>Expand fully.</p> $x(x + 1)(x - 2)$		$x^3 - x^2 - 2x$