
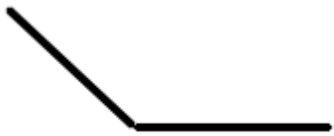

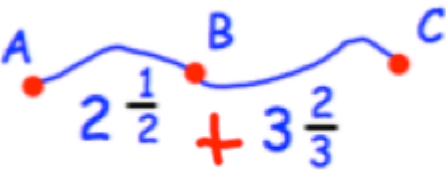
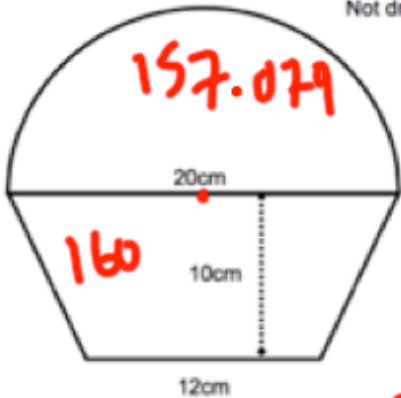


July 29th	5-a-day	Numeracy
<p>Draw an acute angle</p> 	<p>Draw an obtuse angle</p> 	
<p>$\frac{3}{5}$ of \$40</p>	<p>24</p>	
<p>Write 10% as a decimal</p> <p>0.1</p>	<p>Write 0.99 as a percentage</p> <p>99%</p>	
<p>a is an even number b is an odd number</p> <p>Is a + b an odd number, an even number or could it be either?</p>	<p>even + odd = odd</p> 	
<p>Expand $2(y - 10)$</p>	<p>$2y - 20$</p>	

July 29	5-a-day	Foundation
<p>A class has 30 students and 21 are girls. Find the ratio of boys to girls in its simplest form.</p> <p>9 boys</p>		$\begin{array}{l} 9:21 \\ 3:7 \end{array}$
<p>Expand and simplify</p> $4(y + 3) + 3(y + 2)$		$\begin{array}{l} 4y + 12 + 3y + 6 \\ 7y + 18 \end{array}$
<p>Solve $x - 6 < 12$</p> $x < 18$		<p>Solve $2y - 1 > 19$</p> $\begin{array}{l} 2y > 20 \\ y > 10 \end{array}$
 <p>The diagram shows the distance between villages A, B and C in miles</p>		<p>What is the distance from village A to village C?</p> $\begin{array}{l} \frac{5}{2} + \frac{11}{3} = \frac{15}{6} + \frac{22}{6} \\ \frac{37}{6} = 6\frac{1}{6} \text{ miles} \end{array}$
<p>In a triangle, the ratio of the angles a, b and c is 1:2:3</p> $++ = 6$ <p>What is the size of each angle?</p> $180 \div 6 = 30^\circ$		$\begin{array}{l} 1 \times 30 = 30^\circ \\ 2 \times 30 = 60^\circ \\ 3 \times 30 = 90^\circ \end{array}$

July 29	5-a-day	Higher
<p>Solve $y^2 - 7y - 18 = 0$</p> $(y - 9)(y + 2) = 0$	<p>Solve $y^2 - 49 = 0$</p> $(y - 7)(y + 7) = 0$ $y = 7 \quad y = -7$	
<p>Shown is a logo.</p> <p>Not drawn accurately</p>  <p>Handwritten calculations:</p> $\frac{1}{2}(\pi \times 10^2) = 157.079 \dots$ $\frac{1}{2}(12 + 20) \times 10 = 160$	<p>Calculate the area of the logo.</p> 317.079 cm^2	
<p>There are 20 students in class 1. There are 10 students in class 2.</p> <p>Both classes sit the same test.</p> <p>The mean mark in class 1 is 64%. The mean mark for all 30 students is 60%</p> <p>Handwritten calculations:</p> $1800 \times 20 = 36000$ $1800 \times 10 = 18000$ $36000 + 18000 = 54000$ $54000 \div 30 = 1800$	<p>Simplify</p> $2\sqrt{3} \times 3\sqrt{300}$ $6\sqrt{900}$ $6 \times 30 = 180$	
<p>Prove $(4n + 1)^2 - (2n - 3)$ is always even.</p> $(4n + 1)(4n + 1) - (2n - 3)$ $16n^2 + 8n + 1 - 2n + 3$	<p>Work out the mean mark in class 2.</p> $1800 - 1280 = 520$ $520 \div 10 = 52\%$	
	$16n^2 + 6n + 4$ <p>↑ ↑ ↑ even + even + even = even</p>	