
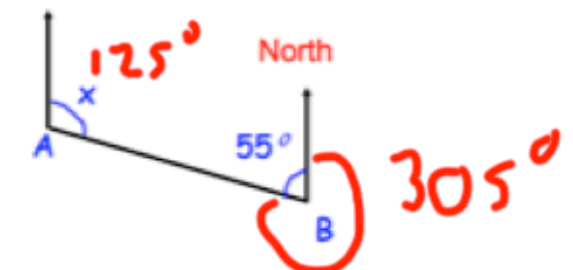
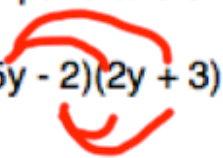
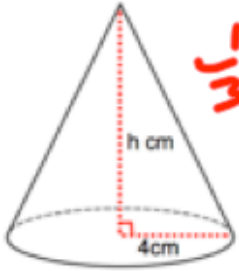


July 1st	5-a-day	Numeracy
<p>374 471 730 901 1023</p> <p>Which number is the largest?</p> <p style="text-align: center;">901</p>		<p>Write the largest number in words.</p> <p>nine hundred and one.</p>
 <p>What fraction of the shape is shaded?</p> <p style="text-align: center;">$\frac{1}{3}$</p>		<p>What percentage of the shape is shaded?</p> <p style="text-align: center;">33.333...%</p>
<p>383 745 837 890 734</p> <p>Which two numbers are multiples of 5?</p> <p style="text-align: center;">745 890</p>		<p>Add the two even numbers</p> $\begin{array}{r} 890 \\ + 734 \\ \hline 1624 \end{array}$
<p>Write down the number that is 7 less than 2</p> <p style="text-align: center;">-5</p>		<p>Write down the number that is 6 more than -13</p> <p style="text-align: center;">-7</p>
<p>48 44 <u>40</u> 36 <u>32</u> <u>28</u></p> <p>Fill in the missing numbers</p>		<p>A sequence has the rule, multiply the previous number by three and then add one</p> <p>1 4 13 <u>40</u> <u>121</u></p> <p>Fill in the missing numbers</p>

July 1	5-a-day	Foundation
$\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$		
<p>North</p> 	<p>What is the size of angle x?</p> $\begin{array}{r} 180 \\ - 55 \\ \hline 125^\circ \end{array}$	
<p>What is the bearing of B from A?</p> 125°	<p>What is the bearing of A from B?</p> 305°	
<p>What fraction is halfway between</p> $\frac{1}{5} \quad \text{and} \quad \frac{7}{10}$	$\frac{1}{5} + \frac{7}{10} = \frac{2}{10} + \frac{7}{10} = \frac{9}{10}$ $\frac{9}{10} \div 2 = \frac{9}{10} \times \frac{1}{2} = \boxed{\frac{9}{20}}$	
<p>Expand and simplify</p> $5(3x + 1) - 3(3x + 2)$ $15x + 5 - 9x - 6$	$\boxed{6x - 1}$	

July 1	5-a-day	Higher
<p>Expand and simplify</p> <p>$(5y - 2)(2y + 3)$</p>  <p>$10y^2 + 15y - 4y - 6$</p>		<p>$10y^2 + 11y - 6$</p>
<p>$x = 10y + 14$</p> <p>$-14 \quad -14$</p> <p>Rearrange the formula to make y the subject</p>		<p>$x - 14 = 10y$</p> <p>$y = \frac{x - 14}{10}$</p>
<p>A coin is flipped and a dice is rolled.</p> <p>What is the probability of a tail and a 3</p>		<p>$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$</p>
<p>Simplify fully</p> <p>$\sqrt{6} \times \sqrt{2}$</p> <p>$\sqrt{4} \times \sqrt{3}$</p> <p>$2\sqrt{3}$</p>		<p>Rationalise the denominator</p> <p>$\frac{6}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{6\sqrt{3}}{3} = 2\sqrt{3}$</p>
 <p>The volume of the cone is 200cm^3</p>		<p>Find the height of the cone.</p> <p>$\frac{1}{3} \times \pi \times 4^2 \times h = 200$</p> <p>$\pi \times 16 \times h = 600$</p> <p>$h = \frac{600}{16\pi} = 11.94\text{cm}$</p>