
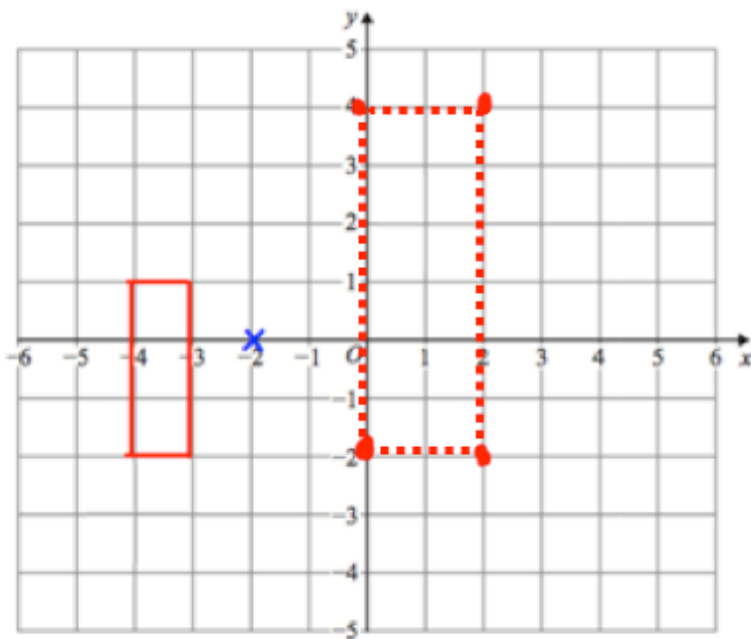


January 6th	5-a-day	Numeracy
<p>Here is a list of 6 numbers</p> <p>11   16   18   36   68   69</p> <p>Choose two numbers that have a sum of 52</p> <p>16 &amp; 36</p>	<p>Which number is a square number?</p> <p>36</p>	
 <p>These two lines are <u>parallel</u></p>		
<p>Choose a sensible <b>metric</b> unit for the following</p> <p>The distance from Birmingham to London is 179 <u>kilometres (km)</u></p>	<p>The height of the tallest living person is 232 <u>centimetres (cm)</u></p>	
<p>124   120   116   112   108 104   100   96   92   88</p> <p>What are the next two terms?</p> <p>108   104</p>	<p>What is the tenth term?</p> <p>88</p>	
<p>Write 40% as a fraction</p> <p><math>\frac{4}{10}</math>   <math>\frac{2}{5}</math></p>		

January 6th	5-a-day	Foundation						
$\frac{2}{7} \times \frac{1}{3}$	$\frac{2}{21}$	$\frac{4}{7} \div \frac{4}{5}$ $\frac{4}{7} \times \frac{5}{4}$ $\frac{20}{28} = \frac{10}{14} = \frac{5}{7}$						
<p>A stone weighs 650g to the nearest 10g.</p> <p>What is the least possible weight of the stone?</p>	<p>645g</p>							
<p>Simplify</p> $m^3 \times m^5$	$m^8$	<p>Simplify</p> $x^8 \div x^2$ $x^6$						
<table border="1" data-bbox="316 1211 762 1350"> <thead> <tr> <th></th> <th>Number of trials</th> <th>Number of blue beads chosen</th> </tr> </thead> <tbody> <tr> <td>Ian</td> <td>25</td> <td>7</td> </tr> </tbody> </table> <p>Write down the relative frequency of a blue bead?</p>		Number of trials	Number of blue beads chosen	Ian	25	7	$\frac{7}{25}$	<p>If there are 100 beads in the bag, how many blue beads do you expect there to be?</p> $\frac{7}{25} \times 100 = 28$
	Number of trials	Number of blue beads chosen						
Ian	25	7						
<p>What is the reciprocal of 4?</p>	$\frac{1}{4}$							

January 6	5-a-day	Higher
<p>A man drives 280 miles in 5 hours. What is his average speed?</p> <p><math>s</math> <math>t</math></p>		$280 \div 5$ $= 56 \text{ mph}$
<p>Calculate the nth term</p> <p>20 17 14 11 ... ..</p> <p><math>-3 -3</math></p> <p><math>-3n + 23</math></p>		<p>Work out the 100th term.</p> $-3 \times 100 + 23$ $-300 + 23$ $-277$



Enlarge the rectangle by scale factor -2, centre of enlargement (-2, 0)

<p>What is the surface area of a sphere with diameter 40cm.</p> <p>Give your answer in terms of pi.</p>	$4\pi r^2$ $r = 20 \text{ cm}$ $4 \times \pi \times 20^2$ $4 \times \pi \times 400 \quad 1600\pi \text{ cm}^2$
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