
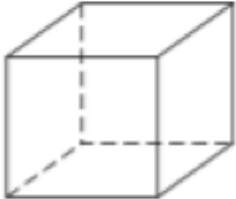
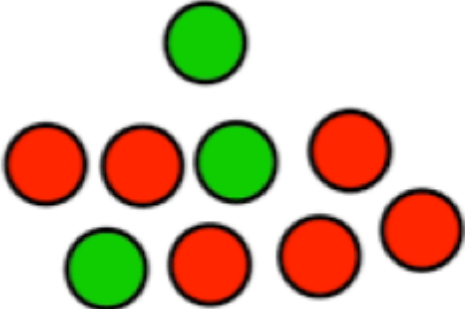
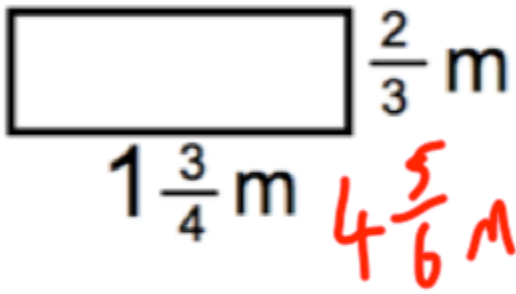

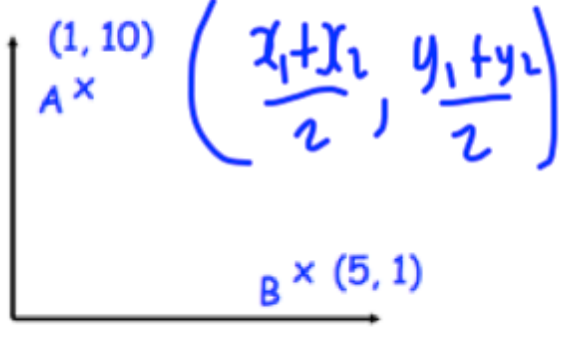


July 23rd	5-a-day	Numeracy
<p>A rule for a sequence is "half the previous number."</p> <p>40 20 10 <u>5</u> <u>2.5</u></p> <p>Find the two missing numbers</p>		
 <p>Shade $\frac{1}{4}$ of this shape</p> <p>$\frac{1}{4}$ of 12 = 3</p>	<p>What percentage of the shape is not shaded?</p> <p>75%</p>	
 <p>Shown above is a cube</p>	<p>How many faces does the cube have?</p> <p>6</p> <p>How many vertices does the cube have?</p> <p>8</p>	
	<p>A counter is picked at random.</p> <p>What is the probability of a red?</p> <p>$\frac{6}{9} = \frac{2}{3}$</p>	
<p>$\frac{3}{4}$ of 44m</p>	<p>33m</p>	

July 23	5-a-day	Foundation
 <p> $1\frac{3}{4} \text{ m}$ $\frac{2}{3} \text{ m}$ $4\frac{5}{6} \text{ m}$ </p>	<p>Work out the perimeter of the rectangle</p> $\frac{2}{3} + \frac{2}{3} + \frac{7}{4} + \frac{7}{4}$ $\frac{8}{12} + \frac{8}{12} + \frac{21}{12} + \frac{21}{12} = \frac{58}{12}$	
$\frac{1}{4} \div \frac{11}{13}$ $\frac{1}{4} \times \frac{13}{11} = \frac{13}{44}$		
<p>Solve</p> $5x + 6 = 21$ $5x = 15$ $x = 3$		
<p>Find the nth term</p> $1, 1.5, 2, 2.5, \dots$ $0.5n + 0.5$	<p>Find the 20th term.</p> $0.5 \times 20 + 0.5$ 10.5	
<p>Factorise fully</p> $6ef + 9e^2$ $3e(2f + 3e)$		

July 23	5-a-day	Higher										
<p>A train leaves a train station every 12 minutes. $2 \times 2 \times 3$</p> <p>A bus leaves a bus station every 14 minutes. 2×7</p> <p>At 11am a train and a bus both leave the station.</p>		<p>When will both next leave the station at the same time?</p> <p>12 14</p> <p>84 minutes</p> <p>$12:24$</p>										
<p>The area of a circle is 20cm^2</p> <p>Work out the circumference.</p> 		<p>$20 \div \pi = 6.36619\dots$</p> <p>$r = \sqrt{6.36619} = 2.5231\dots$</p> <p>$C = \pi \times d = \pi \times (5.0462) = 15.85\text{cm}$</p>										
		<p>Find the midpoint of AB</p> <p>$(\frac{6}{2}, \frac{11}{2})$</p> <p>$(3, 5.5)$</p>										
<table border="1" data-bbox="175 1355 766 1668"> <thead> <tr> <th>Age</th> <th>Population Size</th> </tr> </thead> <tbody> <tr> <td>0 - 20</td> <td>693</td> </tr> <tr> <td>21 - 40</td> <td>1203</td> </tr> <tr> <td>41 - 60</td> <td>802</td> </tr> <tr> <td>Over 60</td> <td><u>405</u></td> </tr> </tbody> </table>	Age	Population Size	0 - 20	693	21 - 40	1203	41 - 60	802	Over 60	<u>405</u>		<p>Barry wants a sample of 80 people.</p> <p>How many "over 60's" should he select?</p> <p>$\frac{405}{3103} \times 80 = 10.44$</p> <p>10 (11)</p>
Age	Population Size											
0 - 20	693											
21 - 40	1203											
41 - 60	802											
Over 60	<u>405</u>											
<p><u>$(4.2 \times 10^3) \times (3 \times 10^5)$</u></p> <p>$2 \times 10^{11}$</p>		<p>12.6×10^8</p> <p><u>2×10^{11}</u></p> <p>6.3×10^{-3}</p>										