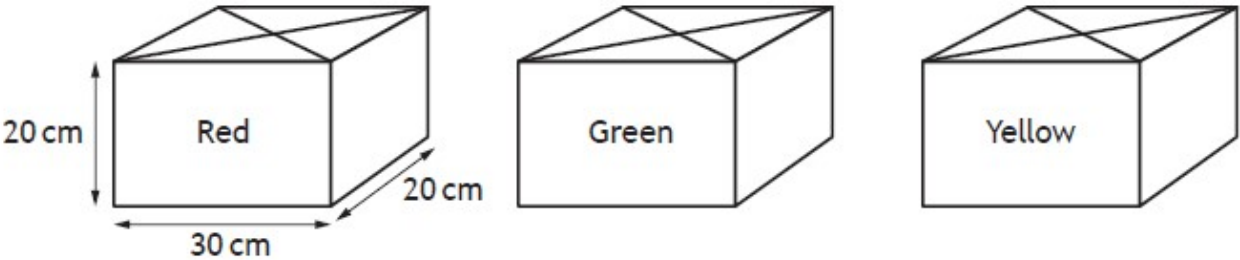




<i>2019 P1 Q12</i>	<p>Kieran and Gemma have each set themselves a monthly electricity allowance. Kieran has set himself an allowance of £42. Gemma has set herself an allowance of £49. At the end of July, their smart meters recorded that</p> <ul style="list-style-type: none"> • Kieran had used £15 of his allowance • Gemma had used £21 of her allowance. <p>Determine who had used a greater proportion of their allowance. Use your working to justify your answer.</p>	3										
<i>Ans</i>	<p>Gemma (since $\frac{6}{14} > \frac{5}{14}$)</p>											
<i>2018 P1 Q11</i>	<p>Mary gave some money to four of her nieces. It was shared in proportion to their ages.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Name</th> <th style="text-align: center;">Age</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Jane</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">Heather</td> <td style="text-align: center;">11</td> </tr> <tr> <td style="text-align: center;">Laura</td> <td style="text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">Kate</td> <td style="text-align: center;">6</td> </tr> </tbody> </table> <p>Kate's share is £1950. Calculate the total amount Mary gifted her nieces.</p>	Name	Age	Jane	4	Heather	11	Laura	9	Kate	6	3
Name	Age											
Jane	4											
Heather	11											
Laura	9											
Kate	6											
<i>Ans</i>	<p>Jane £1300, Heather £3575, Laura £2925 Total: 1300 + 3575 + 2925 + 1950 = £9750</p>											

2018 P2 Q6	<p>Ali, Kate and Jim are paid to deliver leaflets advertising a new restaurant.</p> <p>They shared the money they were paid in a ratio of 3 : 5 : 7.</p> <p>Jim received £154.</p> <p>Calculate how much the restaurant paid, in total, to deliver the leaflets.</p>	2								
<i>Ans</i>	330									
2018 P2 Q5(a)	<p>Three tonnes of sheep food will feed 350 sheep for 18 days.</p> <p>The number of sheep increases by 100.</p> <p>(a) How long will the same weight of food now last?</p>	3								
<i>Ans</i>	14 days									
2017 P1 Q6	<p>The mathematics teachers in a school win a lottery.</p> <p>They decide to share their winnings in proportion to the amount they each pay per week.</p> <p>They each pay the following amounts per week:</p> <table data-bbox="229 1016 624 1211"> <tr> <td>Mr Jones</td> <td>£0.50</td> </tr> <tr> <td>Miss Smith</td> <td>£2.00</td> </tr> <tr> <td>Mr Ross</td> <td>£2.50</td> </tr> <tr> <td>Mr Young</td> <td>£4.00</td> </tr> </table> <p>Mr Young's share is £2 794 000.</p> <p>Calculate how much the teachers win in total.</p>	Mr Jones	£0.50	Miss Smith	£2.00	Mr Ross	£2.50	Mr Young	£4.00	3
Mr Jones	£0.50									
Miss Smith	£2.00									
Mr Ross	£2.50									
Mr Young	£4.00									
<i>Ans</i>	(£)6 286 500									

2016 P2 Q8(a)	<p>Brendan makes candles from blocks of wax. Each block of wax is a cuboid measuring 30 cm by 20 cm by 20 cm as shown.</p> <div style="text-align: center;">  </div> <p>Each candle contains the colours red, green and yellow in the ratio 3 : 1 : 2 respectively. Each candle is a cube with volume 729 cm^3.</p> <p>(a) Brendan only has 1 block of each colour. What is the maximum number of candles that he can make?</p>	3
Ans	32 candles	
2016 P1 Q1	<p>A restaurant can buy long grain rice in two sizes of bags.</p> <ul style="list-style-type: none"> • A 9 kg bag costs £25.65 • A 20 kg bag costs £57.20 <p>Which size of bag is better value for the restaurant? Use your working to justify your answer.</p>	3
Ans	9 kg bag supported by working	

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">2015 P2 Q1</p>	<p>Publicity material is to be designed for a theatre show that is being sponsored by a local company.</p> <p>All the publicity material must feature the company logo.</p> <p>The company logo is in the shape of a triangle.</p> <p>The designer is to produce a small “flyer” and a large poster.</p> <p>The designer produces a sketch for the flyer as shown.</p>	<div style="text-align: center;">  </div> <p>(a) The ratio of the dimensions in the poster to those in the flyer is 7:2. Calculate the dimensions of the logo as it will appear on the poster.</p>	2
<p><i>Ans</i></p>	<p>Logo is 24.5/28(cm) base/ height</p>		
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">2015 P1 Q5</p>	<p>A shop sells Ice Cola in 330 millilitre cans.</p> <p>An individual can costs 66 pence.</p> <p>Complete the shelf label for Ice Cola below to show the price per litre.</p>	<div style="text-align: center;">  </div>	2
<p><i>Ans</i></p>	<p>£2(.00)/200p per litre</p>		