

<p>£360 is shared between Abby, Ben, Chloe and Denesh.</p> <p>The ratio of the amount Abby gets to the amount Ben gets is <b>2 : 7</b>.</p> <p>Chloe and Denesh each get <b>1.5 times</b> the amount Abby gets.</p> <p>Work out the amount of money that Ben gets.</p> <p style="text-align: right;">4 marks</p>	<p>Last year a family recycled <b>800 kg</b> of household waste.</p> <p><b>57%</b> of this waste was paper and glass.</p> <p>weight of paper recycled : weight of glass recycled = <b>12 : 7</b></p> <p>Calculate the weight of glass the family recycled.</p> <p style="text-align: right;">3 marks</p>	<p>The length of a plane is <b>19.2 metres</b>.</p> <p>Lukas buys a scale model of the plane.</p> <p>The scale of the model is <b>1 : 24</b>.</p> <p>Work out the length of the scale model of the plane.</p> <p>Give your answer in <b>centimetres</b>.</p> <p style="text-align: right;">3 marks</p>
<p>Given that</p> $\frac{a}{b} = \frac{2}{5} \text{ and } \frac{b}{c} = \frac{3}{4}$ <p>find <math>a : b : c</math>.</p> <p style="text-align: right;">3 marks</p>	<p>Chris, Debbie and Errol share some money in the ratio <b>3 : 4 : 2</b>.</p> <p>Debbie gets <b>£120</b>.</p> <p>Chris then gives some of his share to Debbie and some of his share to Errol.</p> <p>The money that Chris, Debbie and Errol each have is now in the ratio <b>2 : 5 : 3</b>.</p> <p>How much money did Chris give to Errol?</p> <p style="text-align: right;">4 marks</p>	<p>Natalie makes potato cakes in a restaurant.</p> <p>She mixes potato, cheese and onion so that</p> <p><b>weight of potato : weight of cheese : weight of onion = 9 : 2 : 1</b></p> <p>Natalie needs to make <b>6000 g</b> of potato cakes.</p> <p>Cheese costs <b>£2.25 for 175 g</b>.</p> <p>Work out the cost of the cheese needed to make <b>6000 g</b> of potato cakes.</p> <p style="text-align: right;">4 marks</p>
<p>In a village</p> <p>the number of houses and the number of flats are in the ratio <b>7:4</b></p> <p>the number of flats and the number of bungalows are in the ratio <b>8:5</b></p> <p>There are <b>50 bungalows</b> in the village.</p> <p>How many houses are there in the village?</p> <p style="text-align: right;">3 marks</p>	<p>There are only <b>blue pens, green pens</b> and <b>red pens</b> in a box.</p> <p>The ratio of the number of blue pens to the number of green pens is <b>2:5</b>.</p> <p>The ratio of the number of green pens to the number of red pens is <b>4:1</b>.</p> <p>There are <b>less than 100 pens</b> in the box.</p> <p>What is the <b>greatest possible number of red pens</b> in the box?</p> <p style="text-align: right;">3 marks</p>	<p>On Saturday, some adults and some children were in a theatre.</p> <p>The ratio of the number of adults to the number of children was <b>5:2</b>.</p> <p>Each person had a seat in the Circle or had a seat in the Stalls.</p> <p><math>\frac{3}{4}</math> of the children had seats in the Stalls.</p> <p><b>117</b> children had seats in the Circle.</p> <p>There are exactly <b>2600</b> seats in the theatre.</p> <p>On this Saturday, were there people on more than <b>60%</b> of the seats?</p> <p>You must show how you get your answer.</p> <p style="text-align: right;">5 marks</p>

