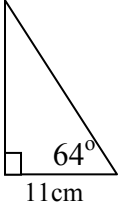
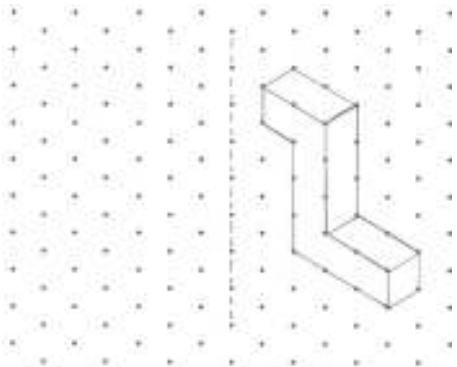


	Give 1 mark for each •	Illustrations for awarding each mark														
1.	<ul style="list-style-type: none"> <li>•<sup>1</sup> identifies correct percentage rate</li> <li>•<sup>2</sup> calculates percentage correctly</li> <li>•<sup>3</sup> calculates interest for 1 month</li> <li>•<sup>4</sup> calculates interest for 8 months</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> 3.4% indicated for use</li> <li>•<sup>2</sup> <math>0.034 \times 5400 = 183.60</math></li> <li>•<sup>3</sup> <math>183.60 \div 12 = 15.30</math></li> <li>•<sup>4</sup> <math>8 \times 15.30 = \text{£}122.40</math></li> </ul> <p style="text-align: right;"><b>4 marks KU</b></p>														
2.(a)	<ul style="list-style-type: none"> <li>•<sup>1</sup> collect like terms</li> <li>•<sup>2</sup> simplify equation</li> <li>•<sup>3</sup> solve equation</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> <math>5x - x = 40 + 4</math></li> <li>•<sup>2</sup> <math>4x = 44</math></li> <li>•<sup>3</sup> <math>x = 11</math></li> </ul> <p style="text-align: right;"><b>3 marks KU</b></p>														
2.(b)	<ul style="list-style-type: none"> <li>•<sup>1</sup> correct common factor</li> <li>•<sup>2</sup> bracket</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> 4</li> <li>•<sup>2</sup> <math>(5g - 4h)</math></li> </ul> <p style="text-align: right;"><b>2 marks KU</b></p>														
3(a)	<ul style="list-style-type: none"> <li>•<sup>1</sup> correct 2 entries</li> <li>•<sup>2</sup> correct last entry</li> </ul>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td><i>w</i></td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td style="background-color: #FF00FF;"></td> <td>12</td> </tr> <tr> <td><i>p</i></td> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td style="background-color: #FF00FF;"></td> <td>44</td> </tr> </table> <p style="text-align: right;"><b>2 marks RE</b></p>	<i>w</i>	2	3	4	5		12	<i>p</i>	4	8	12	16		44
<i>w</i>	2	3	4	5		12										
<i>p</i>	4	8	12	16		44										
3(b)	<ul style="list-style-type: none"> <li>•<sup>1</sup> &amp; •<sup>2</sup> correct formula</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> &amp; •<sup>2</sup> <math>p = 4w - 4</math></li> </ul> <p style="text-align: right;"><b>2 marks RE</b></p>														
3(c)	<ul style="list-style-type: none"> <li>•<sup>1</sup> correct strategy</li> <li>•<sup>2</sup> solve equation</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> <math>4w - 4 = 72</math></li> <li>•<sup>2</sup> <math>w = 19</math></li> </ul> <p style="text-align: right;"><b>2 marks RE</b></p>														
4.	<ul style="list-style-type: none"> <li>•<sup>1</sup> correct strategy</li> <li>•<sup>2</sup> calculate for 1 person</li> <li>•<sup>3</sup> calculate for 5 people</li> </ul>	<p style="text-align: center;"><math>45 \div 3</math></p> <ul style="list-style-type: none"> <li>•<sup>2</sup> 1 person = 15ml</li> <li>•<sup>3</sup> 5 people = 75ml</li> </ul> <p style="text-align: right;"><b>3 marks RE</b></p>														

	Give 1 mark for each •	Illustrations for awarding each mark
5.	<ul style="list-style-type: none"> <li>•<sup>1</sup> correct strategy</li> <li>•<sup>2</sup> calculate travelling time</li> <li>•<sup>3</sup> calculates time available</li> <li>•<sup>4</sup> conclusion</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> <math>T = \frac{D}{S} = \frac{98}{56}</math></li> <li>•<sup>2</sup> <math>T = 1\frac{3}{4}</math> hours [1 hour 45 mins]</li> <li>•<sup>3</sup> Available time = 2 hours</li> <li>•<sup>4</sup> Yes as 1 hour 45 mins &lt; 2 hours</li> </ul> <p style="text-align: right;"><b>4 marks RE</b></p>
6.	<ul style="list-style-type: none"> <li>•<sup>1</sup> find loss</li> <li>•<sup>2</sup> know how to find % loss</li> <li>•<sup>3</sup> correct calculations</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> £2697</li> <li>•<sup>2</sup> <math>\frac{2697}{8990} \times 100\%</math></li> <li>•<sup>3</sup> 30%</li> </ul> <p style="text-align: right;"><b>3 marks KU</b></p>
7	<ul style="list-style-type: none"> <li>•<sup>1</sup> using correct formula</li> <li>•<sup>2</sup> correctly find volume of full glass</li> <li>•<sup>3</sup> know to calculate <math>\frac{3}{4}</math> of volume</li> <li>•<sup>4</sup> correctly calculate <math>\frac{3}{4}</math> of volume</li> <li>•<sup>5</sup> correctly round to nearest 10 cm<sup>3</sup></li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> <math>V = \pi r^2 h</math></li> <li>•<sup>2</sup> Vol of glass = <math>\pi \times 2 \cdot 5^2 \times 12 = 235.6\text{cm}^3</math></li> <li>•<sup>3</sup> <math>\frac{3}{4}</math> of 235.6</li> <li>•<sup>4</sup> 176.7cm<sup>3</sup></li> <li>•<sup>5</sup> 180cm<sup>3</sup></li> </ul> <p style="text-align: right;"><b>5 marks KU</b></p>
8.	<ul style="list-style-type: none"> <li>•<sup>1</sup> &amp; •<sup>2</sup> completes table correctly</li> <li>•<sup>3</sup> correctly calculates mean</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> 0, 55, 76, 21, 20, 5</li> <li>•<sup>2</sup> Total = 177</li> <li>•<sup>3</sup> Mean = <math>177/118 = 1.5</math></li> </ul> <p style="text-align: right;"><b>3 marks KU</b></p>

	Give 1 mark for each •	Illustrations for awarding each mark
9.	<ul style="list-style-type: none"> <li>•<sup>1</sup> interpret information</li> <li>•<sup>2</sup> identify RA triangle</li> <li>•<sup>3</sup> correctly use SOHCAHTOA</li> <li>•<sup>4</sup> correct conclusion</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> &amp; •<sup>2</sup> </li> <li>•<sup>3</sup> <math>\tan 64^\circ = \frac{H}{11} \Rightarrow H = 22 \cdot 55 \text{ cm}</math></li> <li>•<sup>4</sup> Yes as <math>22 \cdot 55 &lt; 24</math></li> </ul> <p style="text-align: right;"><b>4 marks RE</b></p>
10.	<ul style="list-style-type: none"> <li>•<sup>1</sup> attempts to reflect in line PQ</li> <li>•<sup>2</sup> correct vertical lines</li> <li>•<sup>3</sup> completes reflection</li> </ul>	 <p style="text-align: right;"><b>3 marks RE</b></p>
11.	<ul style="list-style-type: none"> <li>•<sup>1</sup> correct strategy</li> <li>•<sup>2</sup> calculate unit time</li> <li>•<sup>3</sup> calculate new time</li> <li>•<sup>4</sup> state conclusion</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> <math>360\text{cm}^3 = 36 \text{ hours}</math></li> <li>•<sup>2</sup> <math>1\text{cm}^3 = 0 \cdot 1 \text{ hours}</math></li> <li>•<sup>3</sup> <math>2880\text{cm}^3 = 288 \text{ hours}</math></li> <li>•<sup>4</sup> Nadia is wrong as <math>288 &gt; 72</math></li> </ul> <p style="text-align: right;"><b>4 marks RE</b></p>
12.	<ul style="list-style-type: none"> <li>•<sup>1</sup> correct strategy</li> <li>•<sup>2</sup> find length of diagonal 1</li> <li>•<sup>3</sup> find length of diagonal 2</li> <li>•<sup>4</sup> calculate area</li> </ul>	<ul style="list-style-type: none"> <li>•<sup>1</sup> 1.5 Rhombus vert. &amp; 2 horiz.</li> <li>•<sup>2</sup> <math>18 \div 1 \cdot 5 = 12\text{cm}</math></li> <li>•<sup>3</sup> <math>18 \div 2 = 9\text{cm}</math></li> <li>•<sup>4</sup> <math>A = \frac{1}{2} \times 12 \times 9 = 54\text{cm}^2</math></li> </ul> <p style="text-align: right;"><b>4 marks RE</b></p>

Paper 2 marks: **KU 20**

**RE 28**

**General total : KU 39 RE 38**