



Question	Give 1 mark for each •	Illustrations of evidence
1.	<b>Ans: 11/28</b> <ul style="list-style-type: none"> <li>• Strat process of adding fractions</li> <li>• Add correctly</li> <li>• Find the amount of black pens</li> </ul>	<ul style="list-style-type: none"> <li>• <math>\frac{1}{4} + \frac{3}{7}</math></li> <li>• 19/28</li> <li>• 11/28</li> </ul>
2.	<b>Ans: A or b</b> <ul style="list-style-type: none"> <li>• States Tolerance</li> <li>• Calculate percentage of one company</li> <li>• Calculate percentage of other two</li> <li>• States which companies</li> </ul>	<ul style="list-style-type: none"> <li>• 43-47mm</li> <li>• A = 80%</li> <li>• B = 80%, C = 40%</li> <li>• A or B would be suitable as they are above the required success rate</li> </ul>
3a	<b>Ans: £340</b> <ul style="list-style-type: none"> <li>• Multiplies hours by wage</li> </ul>	<ul style="list-style-type: none"> <li>• £340</li> </ul>
3b	<b>Ans: £970</b> <ul style="list-style-type: none"> <li>• Finds monthly income</li> <li>• Adds up deductions</li> <li>• Subtracts deductions from income</li> </ul>	<ul style="list-style-type: none"> <li>• <math>340 \times 4 = £1360</math></li> <li>• <math>192 + 118 + 82 = £390</math></li> <li>• £970</li> </ul>
3c	<b>Ans: £430</b> <ul style="list-style-type: none"> <li>• Find 10%</li> <li>• Multiply Savings by number of weeks</li> <li>• Subtract leftover money</li> </ul>	<ul style="list-style-type: none"> <li>• £97</li> <li>• <math>97 \times 5 = £485</math></li> <li>• <math>£485 - 55 = 430</math></li> </ul>
4.	<b>Ans: 1hr 40 mins</b> <ul style="list-style-type: none"> <li>• Find arrival time in Dubai</li> </ul>	<ul style="list-style-type: none"> <li>• 16:35</li> </ul>

	<ul style="list-style-type: none"> <li>• Find the time plane leaves Dubai</li> <li>• Calculate the difference</li> </ul>	<ul style="list-style-type: none"> <li>• 18:15</li> <li>• 1hr 40 mins</li> </ul>
5.	<p><b>Ans: 700 Tvs</b></p> <ul style="list-style-type: none"> <li>• Start table</li> <li>• Find one way of stacking boxes</li> <li>• Find the other</li> <li>• State the maximum</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>• 600</li> <li>• 700</li> <li>• 700 boxes</li> </ul>
6.	<p><b>Ans: £7680</b></p> <ul style="list-style-type: none"> <li>• 20% of 12000</li> <li>• Take away from 12000</li> <li>• Find 20% and take away</li> </ul>	<ul style="list-style-type: none"> <li>• 2400</li> <li>• 9600</li> <li>• 7680</li> </ul>
7a	<p><b>Ans: 45.12m</b></p> <ul style="list-style-type: none"> <li>• Start find circumference of circle/semi circle</li> <li>• Find length of circle/semi circle</li> <li>• Length of either side</li> <li>• Full length</li> </ul>	<ul style="list-style-type: none"> <li>• <math>0.5 \times \pi \times 8</math></li> <li>• <math>12.56 / 25.12</math></li> <li>• 20</li> <li>• 45.12m</li> </ul>
7b.	<p><b>Ans: 86.26m<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Find area of rectangle</li> <li>• Area of circle started</li> <li>• Area of a circle calculated</li> <li>• Total Area</li> <li>• Cost</li> </ul>	<ul style="list-style-type: none"> <li>• 60</li> <li>• States formula</li> <li>• 28.26</li> <li>• 88.26</li> <li>• £1112.50</li> </ul>
8.	<p><b>Ans: Median =137, SIQR = 7</b></p> <ul style="list-style-type: none"> <li>• Sort numbers</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

	<ul style="list-style-type: none"> <li>• Find median</li> <li>• State Q1 and Q3</li> <li>• Find SIQR</li> <li>• Compare averages</li> <li>• Compare SIQR</li> </ul>	<ul style="list-style-type: none"> <li>• 137cm</li> <li>• Q1 = 129 and Q3 = 143</li> <li>• SIQR = 7</li> <li>• On average the second group is taller</li> <li>• The spread of heights in the second class is greater.</li> </ul>
<b>9a.</b>	<b>Ans: £2774.44</b> <ul style="list-style-type: none"> <li>• Calculate cheapest parts</li> <li>• Total costs</li> </ul>	<ul style="list-style-type: none"> <li>• 319.44</li> <li>• 2774.44</li> </ul>
<b>9b.</b>	<b>Ans: £3126</b> <ul style="list-style-type: none"> <li>• Calculate 20%</li> <li>• Calculate the cost of instalments</li> <li>• Find total cost</li> </ul>	<ul style="list-style-type: none"> <li>• 576</li> <li>• 2550</li> <li>• £3126</li> </ul>
<b>10a.</b>	<b>Ans: £74.95</b> <ul style="list-style-type: none"> <li>• <math>14.99 \times 5</math></li> </ul>	<ul style="list-style-type: none"> <li>• £74.95</li> </ul>
<b>10b.</b>	<b>Ans: Family Pass £70</b> <ul style="list-style-type: none"> <li>• Option 2</li> <li>• Option 3: Find number of tokens needed</li> <li>• Find costs of tokens</li> <li>• Option 2 the family pass is the best deal</li> </ul>	<ul style="list-style-type: none"> <li>• 70</li> <li>• 105</li> <li>• £157.50</li> <li>•</li> </ul>