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# **GCSE MARKING SCHEME**

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**SUMMER 2024**

**GCSE  
MATHEMATICS – NUMERACY  
UNIT 2 – FOUNDATION TIER  
3310U20-1**

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## About this marking scheme

The purpose of this marking scheme is to provide teachers, learners, and other interested parties, with an understanding of the assessment criteria used to assess this specific assessment.

This marking scheme reflects the criteria by which this assessment was marked in a live series and was finalised following detailed discussion at an examiners' conference. A team of qualified examiners were trained specifically in the application of this marking scheme. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners. It may not be possible, or appropriate, to capture every variation that a candidate may present in their responses within this marking scheme. However, during the training conference, examiners were guided in using their professional judgement to credit alternative valid responses as instructed by the document, and through reviewing exemplar responses.

Without the benefit of participation in the examiners' conference, teachers, learners and other users, may have different views on certain matters of detail or interpretation. Therefore, it is strongly recommended that this marking scheme is used alongside other guidance, such as published exemplar materials or Guidance for Teaching. This marking scheme is final and will not be changed, unless in the event that a clear error is identified, as it reflects the criteria used to assess candidate responses during the live series.

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Unit 2: Foundation Tier	Mark	Comments										
2. (b) 4 buses	B3	<p>Award B3 for 4 buses, provided it doesn't come from incorrect working <b>or values</b> but allow <math>110 \div 37 = 2.97</math> or 3 buses (or equivalent) and then 4 buses as their final answer.</p> <p>If B3 not awarded, award B2 for any one of the following:</p> <ul style="list-style-type: none"> <li>• <math>(110 + 11) \div 37</math></li> <li>• <math>121 \div 37</math></li> <li>• <math>3 \cdot 2(7027\dots)</math> or 3.3</li> <li>• 3 buses with 10 (people left) or 3 r 10</li> <li>• <math>121 - 3 \times 37</math> and have 10 (left) with answer of 3</li> <li>• Sight of <math>4 \times 37</math> or <math>37 + 37 + 37 + 37</math></li> <li>• Sight of 148</li> <li>• 'their <math>110 + 11 \div 37</math> answer rounded up</li> </ul> <p>If B2 not awarded, award B1 for any one of the following:</p> <ul style="list-style-type: none"> <li>• Sight of <math>3 \times 37</math> or <math>37 + 37 + 37</math></li> <li>• Attempt to work with multiples of 37 up to at least 3 lots of 37 (e.g. 37, 74, 110 or 37, 73, 110)</li> <li>• Sight of 111</li> <li>• <math>110 \div 37</math></li> <li>• Answer of 3</li> <li>• 'their <math>110 + 11 \div 37</math> answer rounded down</li> </ul>										
2. (c) (i)		<p>Answers in the table take precedence Allow tallies for the correct number of pupils</p> <table border="1"> <thead> <tr> <th>Activity</th> <th>Number of pupils</th> </tr> </thead> <tbody> <tr> <td>Climbing</td> <td>6</td> </tr> <tr> <td>High ropes</td> <td>4</td> </tr> <tr> <td>Bowling</td> <td>3</td> </tr> <tr> <td>Sailing</td> <td>11</td> </tr> </tbody> </table> <p>B1 Award B1 for climbing = 6 AND high ropes = 4</p> <p>B1 Award B1 for bowling = 3, F.T 'their climbing' <math>\div 2</math></p> <p>B1 Award B1 for sailing = 11 FT <math>24 - 4 -</math> 'their climbing' – 'their bowling'</p>	Activity	Number of pupils	Climbing	6	High ropes	4	Bowling	3	Sailing	11
Activity	Number of pupils											
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2. (c) (ii) unlikely	B1											

Unit 2: Foundation Tier	Mark	Comments																				
<p>3.</p> <table border="1"> <tr> <td>5:30 p.m.</td> <td><i>The Football Show</i></td> </tr> <tr> <td>6:10 p.m.</td> <td><i>Politics Cymru</i></td> </tr> </table> <p>OR</p> <table border="1"> <tr> <td>5:30 p.m.</td> <td><i>Politics Cymru</i></td> </tr> <tr> <td>5:50 p.m.</td> <td><i>The Football Show</i></td> </tr> </table>  <table border="1"> <tr> <td>6:45 p.m.</td> <td><i>Cartoon Time</i></td> </tr> <tr> <td>7:10 p.m.</td> <td><i>Baking Fun</i></td> </tr> </table> <p>OR</p> <table border="1"> <tr> <td>6:45 p.m.</td> <td><i>Baking Fun</i></td> </tr> <tr> <td>7:35 p.m.</td> <td><i>Cartoon Time</i></td> </tr> </table>	5:30 p.m.	<i>The Football Show</i>	6:10 p.m.	<i>Politics Cymru</i>	5:30 p.m.	<i>Politics Cymru</i>	5:50 p.m.	<i>The Football Show</i>	6:45 p.m.	<i>Cartoon Time</i>	7:10 p.m.	<i>Baking Fun</i>	6:45 p.m.	<i>Baking Fun</i>	7:35 p.m.	<i>Cartoon Time</i>	<p>B2</p> <p>B2</p> <p>B2</p>	<p>Accept unambiguous indication of programme names E.g. 40 minute news for the football show. Allow correct use of 24-hour time.</p> <p>Award B1 for any one of the following:</p> <ul style="list-style-type: none"> <li><i>The Football Show</i> <b>AND</b> <i>Politics Cymru</i> on first two lines on RHS in either order</li> <li><b>Strict</b> FT for the 3<sup>rd</sup> time in the table from 'their given first programme on the 2<sup>nd</sup> line in the table' i.e. Football show and then 6:10 or Politics Cymru and then 5:50 or Cartoon Time and then 5:55 or Baking Fun and then 6:20</li> <li>Consistent working backwards from 6:30pm for the <b>whole 3<sup>rd</sup> line of the table</b> i.e. 5:50 and then Football show or 6:10 and then Politics Cymru or 6:05 and then Cartoon Time or 5:40 and then Baking Fun</li> </ul> <p>Award B1 for any one of the following:</p> <ul style="list-style-type: none"> <li>6:45 (pm) <b>AND</b> <i>Cartoon Time</i></li> <li>6:45 (pm) <b>AND</b> <i>Baking Fun</i></li> <li><b>Strict</b> FT for 'their given third programme on the 5<sup>th</sup> line' i.e. 6:45 (pm) <b>AND</b> Football show <b>AND</b> then 7:25 or 6:45 (pm) <b>AND</b> Politics Cymru <b>AND</b> then 7:05</li> <li>Consistent working backwards from 8pm for the <b>whole 6<sup>th</sup> line of the table</b> i.e. 7:20 and then Football show or 7:40 and then Politics Cymru or 7:35 and then Cartoon Time or 7:10 and then Baking Fun</li> <li>if a programme stated (on 5<sup>th</sup> line of the table) has a consistent start and end time for their programme. E.g. on 5<sup>th</sup> line 7pm <b>and</b> Football show <b>and</b> then 7:40pm on the next line <b>or</b> 6:40 <b>and</b> Cartoon Time <b>and</b> 7:05 on the next line</li> </ul> <p>If repeated use of a programme gains marks in both sections penalise -1 e.g. Cartoon Time and then 5:55 in first section and then</p> <table border="1"> <tr> <td>6:45 p.m.</td> <td><i>Cartoon Time</i></td> </tr> <tr> <td>7:10 p.m.</td> <td><i>Baking Fun</i></td> </tr> </table> <p>Award B1 B2 -1 or B0 B2</p> <p>If <b>no marks awarded for the whole question</b>, award SC1 for:</p> <ul style="list-style-type: none"> <li><b>BOTH</b> <i>Cartoon Time</i> <b>AND</b> <i>Baking Fun</i> given in the 5<sup>th</sup> and 6<sup>th</sup> lines in the programme column (in either order)</li> </ul>	6:45 p.m.	<i>Cartoon Time</i>	7:10 p.m.	<i>Baking Fun</i>
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Unit 2: Foundation Tier	Mark	Comments
<p>4(a) (Deal A = ) (£)19.99 + (£)28.99 × 24  <b>AND</b>  (Deal B = ) (£)100(.00) + (£)24.36 × 24</p> <p>(Deal A = ) (£)715.75 <b>AND</b> (Deal B = ) (£)684.64</p> <p>Deal B (is cheaper by) <b>AND</b> (£)31.11</p>	<p>M3</p> <p>A1</p> <p>B1</p>	<p>Award M2 for any one of the following</p> <ul style="list-style-type: none"> <li>• (Deal A = ) (£)19.99 + 28.99 × 24</li> <li>• (Deal B = ) (£)100(.00) + 24.36 × 24</li> </ul> <p>Award M1 for any one of the following:</p> <ul style="list-style-type: none"> <li>• Sight of (£)28.99 × 24 or (£)695.76</li> <li>• Sight of (£)24.36 × 24 or (£)584.64</li> <li>• Sight of (£)1175.52 (BIDMAS error Deal A)</li> <li>• Sight of (£)2984.64 (BIDMAS error Deal B)</li> </ul> <p>CAO</p> <p>If M0A0 awarded, award SC1 for any one of the following:  (19.99 + 29 × 24=) (£)715.99  (20 + 28.99 × 24=) (£)715.76  (20 + 29 × 24=) (£)716  (100 + 24.4(0) × 24=) (£)685.6(0)  (100 + 24 × 24=) (£)676</p> <p>FT the difference between ‘their <b>derived</b> Deal A’ and ‘their <b>derived</b> Deal B’ <b>with</b> ‘their cheaper’ deal stated provided at least one mark previously awarded.  <b>Note:</b>  For use of 12 months instead of 24 months award:  SC1 for sight of (19.99 + 28.99 × 12 =) (£)367.87  SC1 for sight of (100 + 24.36 × 12 =) (£)392.32.  B1 for the correct conclusion with the correct difference on follow-through (Deal A AND (£)24.45) provided at least one mark awarded.</p>
<p><u>4(a) Alternative method for difference</u>  (Monthly payments difference =)  [(£)28.99-(£)24.36] × 24 or equivalent</p> <p>(Deal B cheaper by = ) (£)111.12</p> <p>(One off payments difference=) (£)100(.00) - (£)19.99  (Deal A is cheaper by = ) (£)80.01</p> <p>Deal B (is cheaper by) <b>AND</b> (£)31.11</p>	<p>M1</p> <p>A1</p> <p>M1</p> <p>A1</p> <p>B1</p>	<p>(695.76 – 584.64)</p> <p>If M0A0 M0A0 awarded, award SC1 for any one of the following:  (£) 31.35 from (29 – 24.36) × 24 - (100 – 19.99)  (£) 31.36 from (29 – 24.36) × 24 - (100 – 20)  (£) 30.15 from (28.99 – 24.40) × 24 - (100 – 19.99)  (£) 30.16 from (28.99 – 24.40) × 24 - (100 – 20)  (£) 39.75 from (28.99 – 24) × 24 - (100 – 19.99)  (£) 39.76 from (28.99 – 24) × 24 - (100 – 20)  (£) 39.99 from (29 – 24) × 24 - (100 – 19.99)  (£) 40 from (29 – 24) × 24 - (100 – 20)  (£) 30.39 from (29 – 24.40) × 24 - (100 – 19.99)  (£) 30.4(0) from (29 – 24.40) × 24 - (100 – 20)</p> <p>FT the difference between ‘their <b>derived</b> monthly payments difference’ <b>and</b> ‘their <b>derived</b> one-off payment difference’ with correct conclusion provided at least one mark previously awarded.  <b>Note:</b> For use of 12 months instead of 24, award:  M1 for 100 – 19.99  A1 for (£)80.01  SC1 for sight of (28.99 × 12 - 24.36 × 12) (£)55.56  and the correct conclusion with the correct difference on follow-through (Deal A and 24.45)</p>

Unit 2: Foundation Tier	Mark	Comments
<p>Organisation and communication</p> <p>Writing</p>	<p>OC1</p> <p>W1</p>	<p>For OC1, candidates will be expected to:</p> <ul style="list-style-type: none"> <li>• present their response in a structured way</li> <li>• explain to the reader what they are doing at each step of their response</li> <li>• lay out their explanations and working in a way that is clear and logical</li> <li>• write a conclusion that draws together their results and explains what their answer means</li> </ul> <p>For W1, candidates will be expected to:</p> <ul style="list-style-type: none"> <li>• show all their working</li> <li>• make few, if any, errors in spelling, punctuation and grammar</li> <li>• use correct mathematical form in their working</li> <li>• use appropriate terminology, units, etc.</li> </ul>
<p>4(b) A line of 12.8cm (<math>\pm 2</math>mm) (or a point) in a correct position drawn within the angle tolerance (<math>\pm 2^\circ</math>)</p> <p>Screen size = 14.3 cm (<math>\pm 2</math>mm) OVERLAY</p>	<p>B2</p> <p>B1</p>	<p>If 2 'vertical lines' given, mark the line that gains the most marks from the first B2</p> <p>Award B1 for any one of the following:</p> <ul style="list-style-type: none"> <li>• a line drawn (or point indicated) of length 12.8cm (<math>\pm 2</math>mm) in a correct position but out of the angle tolerance (<math>\pm 2^\circ</math>)</li> <li>• a line drawn from the given line (or point indicated) of length 12.8cm (<math>\pm 2</math>mm) within the angle tolerance (<math>\pm 2^\circ</math>) but not in a correct position</li> </ul> <p>Strict FT from their diagram. If B2 previously awarded, then award the final B1 provided:</p> <ul style="list-style-type: none"> <li>• 'their diagonal' is measured correctly (<math>\pm 2</math> mm) (may need to check both diagonals) AND</li> <li>• this measurement lies between 13.9 and 14.7 cm (i.e. 14.3 cm <math>\pm 4</math> mm).</li> </ul> <p>If B1 or B0 previously awarded, award the final B1 for 'their diagonal' measured correctly (<math>\pm 2</math>mm) (may need to check both diagonals)</p> <p>Answer must be given in cm <b>and</b> to 1 decimal place for B1</p> <p>Award SC1 for an answer of 14.3 (cm) from use of Pythagoras' Theorem.</p>

Unit 2: Foundation Tier	Mark	Comments								
<p>5. <math>6 \times 7 + 5 \times 180</math> or equivalent (42 + 900)</p> <p style="text-align: right;">942 (cm)</p>	<p>M2</p> <p>A2</p>	<p>May be seen in stages but M2 only awarded if intention of adding <math>6 \times 7</math> and <math>5 \times 180</math> is seen.</p> <p>Award M1 for any one of the following. May be embedded within working.</p> <ul style="list-style-type: none"> <li>• sight of <math>6 \times 7</math></li> <li>• sight of <math>5 \times 180</math></li> </ul> <p>Answer line takes precedence.</p> <p>Award A1 for any one of the following. May be embedded within working.</p> <ul style="list-style-type: none"> <li>• <math>(6 \times 7 =) 42</math></li> <li>• <math>(5 \times 180 =) 900</math></li> </ul> <p>If no marks awarded, award SC2 for an answer of 1129 (cm) from using 6 panels and 7 posts.</p> <p>If no marks awarded, award SC1 for any one of the following:</p> <ul style="list-style-type: none"> <li>• An answer of 381 (cm) (from use of 3 posts and 2 panels)</li> <li>• Sight of 5 panels with 6 posts drawn</li> <li>• <math>7 \times 7 + 6 \times 180</math> (<math>49 + 1080</math>)</li> </ul>								
<p>6. (Amount needed to save after next week) (£)510 – 165 or (£) 510 – (95 + 70) or (£) 510 – 95 – 70 (=£345)</p> <p>(Amount to save per week £) <math>\div 12</math> (£) 28.75</p>	<p>M2</p> <p>m1</p> <p>A1</p>	<p>May be seen in stages Allow missing brackets provided not contradicted in further working M1 for sight of any one of</p> <ul style="list-style-type: none"> <li>• <math>510 - 95 (= £415)</math></li> <li>• <math>510 - 70 (= £440)</math></li> </ul> <p>Depends on at least M1 previously awarded</p> <p>CAO. ISW FT provided at least 2 marks previously awarded</p> <ul style="list-style-type: none"> <li>• FT from M1 m1 for A1: <ul style="list-style-type: none"> <li>○ <math>415 \div 12 = (£)34.58(333\dots)</math> or (£)34.59</li> <li>○ <math>440 \div 12 = (£)36.66(666\dots)</math> or (£)36.67</li> </ul> </li> <li>• FT from M2 m0 for A1: <ul style="list-style-type: none"> <li>○ <math>345 \div 13 = (£)26.53(8\dots)</math> or (£)26.54</li> <li>○ <math>345 \div 11 = (£)31.36(36\dots)</math> or (£)31.37</li> </ul> </li> </ul> <p>If no marks, award any one of the following:</p> <table border="1"> <tbody> <tr> <td>SC2</td> <td>(<math>£</math>)28.75 &lt; answer <math>\leq</math> (<math>£</math>)29, from supporting working, e.g. <math>12 \times 29 + 95 + 70 = (£)513</math></td> </tr> <tr> <td>SC1</td> <td>(<math>£</math>)28.75 &lt; unsupported answer <math>\leq</math> (<math>£</math>)29</td> </tr> <tr> <td>SC1</td> <td>answer (<math>£</math>)13.75 from <math>165 \div 12</math></td> </tr> <tr> <td>SC1</td> <td>answer (<math>£</math>)42.50 from <math>510 \div 12</math></td> </tr> </tbody> </table>	SC2	( $£$ )28.75 < answer $\leq$ ( $£$ )29, from supporting working, e.g. $12 \times 29 + 95 + 70 = (£)513$	SC1	( $£$ )28.75 < unsupported answer $\leq$ ( $£$ )29	SC1	answer ( $£$ )13.75 from $165 \div 12$	SC1	answer ( $£$ )42.50 from $510 \div 12$
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Unit 2: Foundation Tier	Mark	Comments
7(a)(i) $133 \times 8$ 1064 (miles)	M1 A1	Mark final answer. Allow 1064 km
7(a)(ii) $8 \times 60$ 480 (mph)	M1 A1	FT from (a)(i) $60 \times$ 'their 1064' $\div 133$ or 'their 1064' $\div \frac{133}{60}$ or 'their 1064' $\div 2.2(166\dots)$ A1 Allow A1 for $479 \text{ (mph)} < \text{answer} \leq 483.64 \text{ (mph)}$ from $1064 \div 2.2(166\dots)$ rounded or truncated to at least 1 d.p. or similar for a correctly evaluated 'their 1064' $\div 2.2(166\dots)$
7(b) $55 \times 40 \times 23$ 50 600 (cm <sup>3</sup> ) or 50 600 ml or 50.6 litres Unambiguously implies 'Yes' with one of the following: <ul style="list-style-type: none"> <li>(48 litres =) 48 000 cm<sup>3</sup></li> <li>50.6 (litres)</li> <li>a suitable appropriate statement, e.g. '50 litres is more than 48 litres'</li> </ul>	M1 A1 E1	FT from M1 A0 provided appropriate conclusion and conversion is shown Allow 'Yes' with clear <b>use of</b> 1 litre = 1000 cm <sup>3</sup> , e.g. <ul style="list-style-type: none"> <li>(48 litres is less than) 50(.6 litres)</li> <li>50(.6 litres is greater than 48 litres)</li> <li>50 000 (cm<sup>3</sup>) is greater than 48 000 (cm<sup>3</sup>)</li> </ul>
7(c) a = 43(°) b = 137(°) c = 112(°) d = 112(°)	B1 B1 B1 B1	FT b = 180 - 'their a', provided 'their b' > 90 and 'their b' $\neq$ 112 FT $360 - (68 + \text{'their a'} + \text{'their b'})$ , provided: <ul style="list-style-type: none"> <li><math>112 &lt; \text{'their a'} + \text{'their b'} &lt; 202</math></li> <li><math>c \neq 137</math></li> <li>their c' <math>\neq</math> 'their b'</li> </ul> FT d = 'their c', provided $90 < \text{'their c'} < 180$

8. Select the method to give the best mark:

Method using £	
Camera Fox	(62.95 + 3.90 =) (£)66.85 B1
US Camera Geek	81.20 ÷ 1.25 (£)64.96 M1 A1
Sure Camera	75 – 75 × 0.14 or 75 – 10.50 or 75 × (1 – 0.14) M1 (£)64.50 A1
Conclusion 'Sure Camera'	Costs 66.85, 64.96 and 64.50 WITH incorrect conclusion or no conclusion penalise -1

OR

Method using \$	
(62.95 + 3.90) × 1.25 or (£)66.85 × 1.25 or 62.95 × 1.25 + 3.90 × 1.25 M1 (\$83.56(25) or (78.69 + 4.88 = \$)83.57 Allow an answer in the range (\$ 83.55 to (\$83.57 A1	
(\$81.20 given)	
(75 – 75 × 0.14) × 1.25 or 64.50 × 1.25 or 75 × (1 – 0.14) × 1.25 M2 (\$80.62(5) or (\$80.63 A1	
Costs in dollars correct WITH incorrect conclusion or no conclusion penalise -1	

OR method using £ and \$

£	
Camera Fox	(62.95 + 3.90 =) (£)66.85 B1
US Camera Geek	
Sure Camera	75 – 75 × 0.14 M1 (£)64.50 A1
Conclusion	Costs (£)66.85 with (£)64.50 and (\$80.62(5) (or (\$80.63) AND conclusion 'Sure Camera' A1

\$	
(\$81.20 given)	
(75 – 75 × 0.14) × 1.25 M2 (\$80.62(5) or (\$80.63 A1	or

Unit 2: Foundation Tier	Mark	Comments
<p>9.</p> <p>(Number of kWh =) <math>138 \times 39.5 \times 1.02264 \div 3.6</math>  (Cost of gas = Number of kWh) <math>\times 0(. )12</math></p> <p>(£)185.76 to (£)185.82 or 18576(p) to 18582(p)</p> <p>(Standing charge <math>30 \times (0.)32 =</math>) (£)9.6(0) or 960(p)</p> <p>(Total of gas and standing charge)  *(£)195.36 to (£)195.42 or 19536(p) to 19542(p)</p> <p>(Total including VAT =)  <math>1.05 \times 195(. )36</math> to <math>1.05 \times 195(. )42</math></p> <p>*(£)205.12 to (£)205.19(1)  or 20512(p) to 20519(.1p)</p>	<p>M1 m1</p> <p>A1</p> <p>B1</p> <p>B1</p> <p>M1</p> <p>A1</p>	<p><u>Penalise incorrect units -1 only on first occurrence, by withholding A or B mark, not M marks</u></p> <p>(= 1548.4474 kWh)</p> <p>(1548.4474 <math>\times</math> 0.12 = £185.813688)</p> <p>CAO</p> <p>FT 'their derived cost of gas' + 'their <math>30 \times (0.)32</math>' correctly evaluated, provided 'their derived cost of gas' <math>\neq</math> 'their <math>138 \times 39.5 \times 1.02264 \div 3.6</math>' or 1548.4474 kWh  May be implied in later working</p> <p>FT 'their derived total cost of gas + 'their standing charge'</p> <p>ISW further rounding, e.g. (£)205, (£)205.20</p> <p>If final B0 B0 M0 A0, award SC1 for correctly evaluated final answer of <math>1.05 \times</math> 'derived cost of gas' having omitted the standing charge, provided 'their derived cost of gas' <math>\neq</math> 'their <math>138 \times 39.5 \times 1.02264 \div 3.6</math>' or 1548.4474 kWh</p> <p><i>*Allow answers in these ranges that may include unseen rounding or truncation from a previously written value</i></p>
<p>9. <u>Alternative method: Gas per day</u></p> <p>(Number of kWh =) <math>138 \times 39.5 \times 1.02264 \div 3.6</math>  (Number of kWh per day) <math>\div 30</math>  (Cost of gas per day) <math>\times 0(. )12</math></p> <p>(Cost of gas per day =) (£)6.19(...) or 619(...p)</p> <p>(Total of gas and standing charge)  6.51(...) or 651(...p)</p> <p>(Total including VAT =)  <math>1.05 \times 6.51(... ) \times 30</math></p> <p>*(£)205.12 to (£)205.19(1)  or 20512(p) to 20519(.1p)</p>	<p>M1 m1 m1</p> <p>A1</p> <p>B1</p> <p>M1</p> <p>A1</p>	<p><u>Penalise incorrect units -1 only on first occurrence, by withholding A or B mark, not M marks</u></p> <p>(= 1548.4474 kWh)</p> <p>(= 51.6149133...kWh)</p> <p>CAO</p> <p>FT 'their derived cost of gas per day' + <math>(0.)32</math> correctly evaluated  May be implied in later working</p> <p>(= 6.83(94...) <math>\times</math> 30 or <math>6.84 \times 30</math>)  FT 'their derived cost of gas per day + <math>(0.)32</math>, provided 'their derived cost of gas' <math>\neq</math> 'their <math>138 \times 39.5 \times 1.02264 \div 3.6</math>' or 1548.4474 kWh</p> <p>ISW further rounding, e.g. (£)205, (£)205.20</p> <p>If final B0 M0 A0, award SC1 for correctly evaluated final answer of <math>1.05 \times</math> 'derived cost of gas per day' <math>\times</math> 30 having omitted the standing charge, provided 'their cost of gas' <math>\neq</math> 'their <math>138 \times 39.5 \times 1.02264 \div 3.6</math>' or 1548.4474 kWh</p> <p><i>*Allow answers in these ranges that may include unseen rounding or truncation from a previously written value</i></p>

Unit 2: Foundation Tier	Mark	Comments
10(a) $\frac{247}{400}$	B2	Mark final answer B1 for sight of $\frac{988}{1600}$ or $\frac{494}{800}$ If no marks, award SC1 for a final answer of $\frac{153}{400}$
10(b) $18000 \times 8 \div 5$ or $18000 \times 1.6$ or equivalent  28 800 (km)	M1  A1	Accept use of $\times 1.6$ to $\times 1.613$ or $\div 0.62$ to $\div 0.625$  Also accept answers in the range 28960 (km) to 28980 (km)
10(c) (Cost of tarmac) $1600 \times 23 \times 0.035 \times 250$  (£) 322 000	M2  A1	M1 for a product including any 3 of these 4 values Allow M1 for <ul style="list-style-type: none"> <li>• <math>(1600 \times 0.035 \times 250 =)</math> 14 000</li> <li>• <math>(1600 \times 23 \times 250 =)</math> 9 200 000</li> <li>• <math>(1600 \times 23 \times 0.035 =)</math> 1288</li> <li>• <math>(23 \times 0.035 \times 250 =)</math> 201.25</li> </ul> A1 CAO If no marks, award SC1 for an unsupported answer with leading digits 322 and all other digits zero e.g. 32 200 or 3 220 000  If no marks, award either <ul style="list-style-type: none"> <li>• SC2 for <math>(988 \times 23 \times 0.035 \times 250 =)</math> (£)198 835</li> <li>or</li> <li>• SC1 for <math>(988 \times 23 \times 0.035 =)</math> 795(.34 m<sup>3</sup>)</li> </ul>