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# **GCSE MARKING SCHEME**

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**AUTUMN 2020**

**GCSE  
MATHEMATICS - NUMERACY  
UNIT 2 – HIGHER TIER  
3310U60-1**

## **INTRODUCTION**

This marking scheme was used by WJEC for the 2020 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.

**WJEC GCSE MATHEMATICS – NUMERACY**

**AUTUMN 2020 MARK SCHEME**

GCSE Mathematics Numeracy Unit 2: Higher Tier	Mark	Comments
<p>1.</p> <p>(35000 acres <math>\approx</math>) <math>35000 \times 0.00405</math> 141.75 (km<sup>2</sup>)</p> <p>(Food per km<sup>2</sup>) <math>3\,400\,000 \div 141.75</math></p> <p>Following correct working, answers in the range 23975 (tonnes) to 24 000 (tonnes)</p>	<p>M1 A1</p> <p>M1</p> <p>A1</p>	<p><i>Sight of, for example, 3500 or 0.0405 are treated as MR-1 (from first accuracy mark) in addition to any place value error in 'their 3.4 million'</i></p> <p>Allow 141.8 May be implied by further working</p> <p>Allow 3.4 (million) <math>\div</math> 141.75 Allow place value error in 'their 3.4 million' FT 'their 141.75', provided derived from a calculation involving 35000 and 0.00405</p> <p>(Actual answer is 23985.89... tonnes) Do not FT from place value error in 'their 3.4 million' FT for equivalent range, e.g. use of 141.8 gives 23977(.433 tonnes)) so accept answers in the range 23977 to 24000 tonnes</p>
<p>1. Alternative method 1:</p> <p>(tonnes / acre) <math>3\,400\,000 \div 35000</math> 97.1(428....)</p> <p>(per km<sup>2</sup>) <math>97.1(428....) \div 0.00405</math></p> <p>Following correct working, answers in the range 23975 (tonnes) to 24 000 (tonnes)</p>	<p>M1</p> <p>A1</p> <p>M1</p> <p>A1</p>	<p>Allow 3.4 (million) <math>\div</math> 35000 Allow place value error in 'their 3.4 million'</p> <p>Do not FT from place value error in 'their 3.4 million' May be implied by further working</p> <p>FT from place value error in 'their 3.4 million' FT 'their 97.1(428....)' provided derived from a calculation involving 3 400 000 and 35 000</p> <p>(Actual answer is 23985.89... tonnes) Note: Accuracy for place value error in 'their 3.4 million' must be penalised once only on first occurrence</p>
<p>1. Alternative method 2:</p> <p><math>3\,400\,000 \div 0.00405</math> 839506172.8(....)</p> <p><math>839506172.8(....) \div 35000</math></p> <p>Following correct working, answers in the range 23975 (tonnes) to 24 000 (tonnes)</p>	<p>M1</p> <p>A1</p> <p>M1</p> <p>A1</p>	<p>Allow 3.4 (million) <math>\div</math> 0.00405 Allow place value error in 'their 3.4 million'</p> <p>Do not FT from place value error in 'their 3.4 million' May be implied by further working</p> <p>FT from place value error in 'their 3.4 million' FT 'their 839506172.8(....)' provided derived from a calculation involving 3 400 000 and 0.00405</p> <p>(Actual answer is 23985.89... tonnes) Note: Accuracy for place value error in 'their 3.4 million' must be penalised once only on first occurrence</p>

<p>Organisation &amp; 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>2. (Aged 75 or over who used internet) (<math>0.4 \times 286\,500 =</math>) <span style="float: right;">114 600</span></p> <p>(Population who used the internet) (<math>0.85 \times 3\,150\,000 =</math>) <span style="float: right;">2 677 500</span></p> $\frac{114\,600}{2\,677\,500} \quad (\times 100)$ <p style="text-align: right;">4.3 (%)</p>	<p>B1</p> <p>B1</p> <p>M1</p> <p>A2</p>	<p>May be implied in further working.</p> <p>May be implied in further working.</p> <p>FT provided both <math>0.4 \times 286\,500</math> and <math>0.85 \times 3\,150\,000</math> attempted</p> <p>Must be correct to 2 significant figures. A1 for 4.28(0...%) or from correct working 4(%) or 4.2(%)</p> <p>If no marks, award SC1 for an answer of 9.1(%) from <math>\frac{286\,500}{3\,150\,000} \times 100</math></p> <p>If B1 awarded, also award SC1 for 3.638...(%) or 10.7...(%) or with appropriate rounding or truncation OR SC2 for 3.6 (%) or 11 (%), from:</p> $\frac{114600}{3150000} \times 100 = 3.638...(%) = 3.6 (%) \quad \text{or}$ $\frac{286500}{2677500} \times 100 = 10.7...(%) = 11 (%)$
<p>3(a) <math>375 \div 1.6</math> or <math>375 \times 5 \div 8</math> or equivalent <span style="float: right;">234(.375 mph)</span></p>	<p>M1</p> <p>A1</p>	<p>Allow use of <math>\div 1.6</math> to <math>\div 1.613</math>, <math>\times 0.62</math> to <math>\times 0.625</math></p> <p>Accept 234.4 (mph)</p> <p>Allow 234.3(...mph)</p>
<p>3(b)</p> <p>260.5</p> $\begin{array}{r} \div 78 \\ \div 155.552 \\ \times 60 \end{array}$ <p style="text-align: right;">1.288(.... minutes)</p>	<p>M1</p> <p>M1</p> <p>M1</p> <p>A1</p>	<p><u>Method marks can be awarded in any order but the operation must be unique (not contradicted or repeated in the working)</u></p> <p>(Lap distance km)</p> <p>(Average lap time in hours)</p> <p>(Average lap time in minutes)</p> <p>Award M3 for sight of <math>\frac{260.5 \times 60}{78 \times 155.552}</math></p> <p>CAO, accept rounded to 1.29 (minutes) or 1.3 (minutes) or 1 minute 17(.29...) seconds</p> <p>If no marks, award SC1 for equivalent operations used without 260.5 or with use of an incorrect 260.5, i.e. <math>\frac{60}{78 \times 155.552}</math>, <math>60 \div 78 \div 155.552</math> or equivalent</p>
<p>3(c) <span style="float: right;">250</span></p>	<p>B1</p>	

<p>3(d)</p> $250 \div 1.38 \times 1.14 \div 12$ <p>17(.21... million €)</p>	<p>M1 M1 M1 A1</p>	<p><u>Method marks can be awarded in any order but the operation must be unique (not contradicted or repeated in the working)</u></p> <p>Ignore place value errors in working with 'millions' for M marks        (= £181.1594... million)        (= €206.5217... million)</p> <p>Award M3 for sight of <math>\frac{250 \times 1.14}{1.38 \times 12}</math></p> <p>CAO. Allow final answer written in full. Allow 'millions' not written in the answer</p> <p>If no marks, award SC1 for equivalent operations used without 250, i.e. <math>\frac{1.14}{1.38 \times 12}</math> or <math>1.14 \div 1.38 \div 12</math> or equivalent</p>
<p>4.</p> <p>(Greatest total length of pictures)  <math>21.5 + 22.5 + 23.5 + 24.5 + 26.5</math>        or <math>21 + 22 + 23 + 24 + 26 + 5 \times 0.5</math></p> <p>(=) 118.5 (cm)</p> <p>(Lower bound of shelf) 117.5(cm)</p> <p>Difference of 1 cm stated        or sight of <math>118.5 - 117.5 = 1(\text{cm})</math></p>	<p>M1 A1 B1 B1</p>	<p>Allow 0.4999(...) for 0.5 throughout, must clearly be a recurring 9 digit</p> <p>Allow for <b>sight</b> of upper bounds of pictures: 21.5(cm), 22.5(cm), 23.5(cm), 24.5(cm), 26.5(cm)</p> <p>CAO from use of appropriate correct upper bounds and lower bound        Accept FT from clearly <b>recurring 9s</b>, as 0.9999999... is considered as equivalent to 1        Accept <math>117.5 - 118.5 = -1(\text{cm})</math>        Allow <math>117.5 - 118.5 = 1(\text{cm difference})</math></p> <p>If no marks, award SC1 for correct <b>sum</b> of 'their upper bounds' provided they are all increased but less than 0.5cm greater than the measurements given in the question</p>
<p>5(a) <math>6\,550\,000\,000 \times 0.02</math>        or <math>6\,550\,000\,000 \div 50</math></p> <p>(£) <math>1.31 \times 10^8</math></p>	<p>M1 A2</p>	<p>A1 for (£)131 million or (£)131 000 000 or equivalent (e.g. <math>131 \times 10^6</math>)</p> <p>If no marks, award SC1 for sight of (£) <math>1.31 \times 10^{10}</math> (from <math>6\,550\,000\,000 \times 2</math>)</p>
<p>5(b) <math>\pi \times (25.9 \div 2)^2 \times 2.03</math></p> <p>Answer in the range 1068 (mm<sup>3</sup>) to 1070 (mm<sup>3</sup>)</p>	<p>M2 A1</p>	<p>Allow M1 for sight of any of the following:</p> <ul style="list-style-type: none"> <li>• <math>\pi \times 25.9^2 \times 2.03</math></li> <li>• 4275.8 to 4279</li> <li>• <math>1361.7(\dots) \pi</math></li> <li>• <math>\pi \times ((25.9)^2 \div 2) \times 2.03</math></li> <li>• 2137.9(...) to 2139.(...)</li> <li>• <math>680.8\pi</math> to <math>680.9\pi</math></li> </ul> <p>CAO. ISW        Accept an answer of <math>340.4(\dots)\pi</math></p>

<p>6(a) <math>\tan x = \frac{3.9}{56.7}</math>  <math>(x =) \tan^{-1} 3.9/56.7</math> or <math>(x =) \tan^{-1} 0.06878\dots</math>  <math>(x =) 3.93(^{\circ})</math></p>	<p>M1 m1 A2</p>	<p>A1 for <math>(x =) 3.9(3\dots^{\circ})</math> from correct working  An unsupported answer of 3.9 is M0, m0, A0</p>
<p>6(a) <i>Alternative method</i>  (slant height<sup>2</sup> = 3.9<sup>2</sup> + 56.7<sup>2</sup>, s = <math>\sqrt{3230.1}</math>,  leading to) slant height 56.8(33... m) <b>and</b>  either <math>\sin x = \frac{3.9}{56.8(33\dots)}</math> or <math>\cos x = \frac{56.7}{56.8(33\dots)}</math>  <math>(x =) \sin^{-1}(3.9/56.8(33\dots))</math> or <math>\cos^{-1}(56.7/56.8(33\dots))</math>  <math>(x =) 3.93(^{\circ})</math></p>	<p>M1 m1 A2</p>	<p>A1 for <math>(x =) 3.9(3\dots^{\circ})</math> to <math>3.9(7\dots^{\circ})</math> from correct working  An unsupported answer of 3.9 is M0, m0, A0</p>
<p>6(b) <math>56.7 \times 9.36 \div 3.9</math> or <math>56.7 \times 2.4</math> or equivalent  136(.08 cm)</p>	<p>M1 A1</p>	<p>Ignore place value errors due to change of units for M1 only  If units are given they must be correct, accept answer in metres  Allow answers from premature approximation in the range 136 (cm) to 136.1 (cm)</p>
<p>6(b) <i>Alternative method</i>  (Height of poster =) <math>\frac{9.36}{\tan 3.9(\dots^{\circ})}</math>  Answer in the range 136 (cm) to 137.3 (cm)</p>	<p>M1 A1</p>	<p>FT from (a)  M0 for <math>\tan 3.9(\dots^{\circ}) = \frac{9.36}{\text{Height of poster}}</math>  If units are given they must be correct, accept answer in metres</p>
<p>7(a) 45 (cars)</p>	<p>B1</p>	
<p>7(b) Range correct (07:21 and 07:44)  UQ and LQ correct (07:22.5 and 07:35)  Median correct (07:25)</p>	<p>B1 B1 B1</p>	<p>Allow 07:21 to 07:22 and 07:44 to 07.45  Accept seen in working if not given on the box-and-whisker  Accept seen in working if not given on the box-and-whisker  Penalise -1 if the structure of the box-and-whisker plot is not correct, ignore if end vertical lines not shown for whiskers</p>

<p>8(a) (Amount in account =) <math>2000 \times (1 + 0.0438/365)^{30}</math> OR <math>2000 \times 1.00012^{30}</math></p> <p style="text-align: right;">= (£) 2007.21(...)</p>	<p>M2</p> <p>A1</p>	<p>Allow use of 365.25 or 366 Use of 365.25 leads to 1.0001199... Use of 366 leads to 1.00011967... M1 for 1 error (not omission) e.g.</p> <ul style="list-style-type: none"> <li>a place value error e.g. 4.38 instead of 0.0438, or</li> </ul> <p>M1 for <math>(1 + 0.0438/365)^{30}</math> Note: Use of 12 with a power of 1, instead of 365 with a power of 30, would not be considered as 1 error as it is not of equivalent difficulty, and is M0</p> <p>CAO Use of 365.25 leads to (£) 2007.20(7...) Use of 366 leads to (£) 2007.19(...)</p> <p>If no marks awarded, SC1 for answers of:</p> <ul style="list-style-type: none"> <li>(£)2007.41(...) from use of 4.5%, 365 or</li> <li>(£)2007.40(5...) from use of 4.5%, 365.25 or</li> <li>(£)2007.39(...) from use of 4.5%, 366</li> </ul>
<p>8(b) (AER =) <math>\left(1 + \frac{0.045}{12}\right)^{12} - 1</math> = 4.59 (%)</p>	<p>M1</p> <p>A2</p>	<p>A1 for 0.0459(39...%) or 4.59(39...)% , or A1 for 0.046 or 4.6% or 5% from correct working</p> <p>If no marks awarded, SC1 for 4.47 (%) (from use of nominal annual rate of 4.38%. Must be to 2d.p.)</p>
<p>9(a) (Width of rectangle/Base of triangle =) 1.3 (m) (Sloping length<sup>2</sup> =) <math>1.5^2 + 0.65^2</math> Sloping length<sup>2</sup> = 2.6725 or (Sloping length =) <math>\sqrt{2.6725}</math></p> <p>(Sloping length =) 1.63(...) (m)</p> <p>(Cost of wire mesh =) ( <math>2 \times 0.5 \times 1.3 \times 1.5 + 2 \times 1.63(\dots) \times 4.2</math> ) (× 5.6(0)) <math>\frac{1.95\text{m}^2}{(\text{£})10.92} \quad \frac{13.69 \text{ to } 13.73(\dots)\text{m}^2}{(\text{£})76.66(\dots) \text{ to } (\text{£})76.91}</math></p> <p style="text-align: right;">= (£) 87.58 to (£) 87.83</p>	<p>B1</p> <p>M1</p> <p>A1</p> <p>A1</p> <p>M2</p> <p>A1</p>	<p>May be implied by use of 0.65 in further work FT 'their 1.3/2'</p> <p>FT from M1 for the correctly evaluated square root of 'their 2.6725' provided their answer &gt; 1.5 If trigonometry used to calculate the sloping length, M1 for base angle = <math>\tan^{-1}(1.5/(1.3 \div 2))</math> (= 66.5(71...°)) or apex angle = <math>\tan^{-1}((1.3 \div 2)/1.5)</math> (= 23.4(28...°)) m1 for correct rearrangement of a sin or cos equation using their base or apex angle with 1.5 or 1.3 ÷ 2 A1 for (Sloping length =) 1.63(...) (m)</p> <p>FT 'their 1.63(...)' provided Pythagoras or trigonometry attempted and 'their 1.3' M1 for</p> <ul style="list-style-type: none"> <li><math>0.5 \times 1.3 \times 1.5 + 1.63(\dots) \times 4.2</math> or</li> <li>..... + <math>2 \times 1.63(\dots) \times 4.2</math> or</li> <li><math>2 \times 1.63(\dots) \times 4.2 \times 5.6(0)</math></li> </ul> <p>OR M1 for</p> <ul style="list-style-type: none"> <li><math>2 \times 0.5 \times 1.3 \times 1.5 + \dots</math> or</li> <li><math>2 \times 0.5 \times 1.3 \times 1.5 \times 5.6(0)</math></li> </ul> <p>where Pythagoras or trigonometry may not have been attempted</p> <p>FT from previous M2 only Note: A sloping length of 1.6 (m) leads to an answer of (£)86.18(4)</p>

<p>9(b)</p> <p><math>\sqrt[3]{\frac{27}{8}}</math> or <math>\sqrt[3]{\frac{8}{27}}</math> OR <math>\left(\frac{27}{8}\right)^2</math> or <math>\left(\frac{8}{27}\right)^2</math> or 3:2 or 2:3 or equivalent</p> <p><math>\left(\sqrt[3]{\frac{27}{8}}\right)^2</math> OR <math>\left(\sqrt[3]{\frac{8}{27}}\right)^2</math> or 3<sup>2</sup>:2<sup>2</sup> or 2<sup>2</sup>:3<sup>2</sup> or equivalent</p> <p>(Area of wire mesh = ) <math>3 \times \left(\sqrt[3]{\frac{27}{8}}\right)^2</math> or equivalent = 6.75 (m<sup>2</sup>)</p>	<p>B1</p> <p>B1</p> <p>M1</p> <p>A1</p>	<p>(= 1.5 or 0.666... OR 11.3(9...) or 0.08(7...))</p> <p>(= 2.25 OR 0.444...)</p> <p>Accept 6.8 (m<sup>2</sup>)</p>
<p>10. (Remaining balance =)</p> <p><math>18000(1 + 0.0025)^{60} - 237.84 \left(\frac{(1 + 0.0025)^{60} - 1}{0.0025}\right)</math></p> <p>= (£)5533.52(7...) AND</p> <p>e.g. 'No, Dafydd would not have enough to pay off the loan'</p>	<p>M2</p> <p>A2</p>	<p>(= (£)20 909.10(...) – (£)15 375.57(...))</p> <p>Each expression may be seen in stages</p> <p>M1 for a subtraction involving 1 correct expression, OR for a subtraction with only one consistently substituted incorrect value</p> <p>CAO</p> <p>Accept rounded answers e.g. (£)5533 or (£)5534</p> <p>A1 for (£)5533.52(7...) or rounded answers without a correct conclusion, OR</p> <p>A1 for a correct calculation of (£)15 375.57(...)</p>
<p>11(a)</p> <p>(Distance travelled =) <math>\frac{85}{360} \times 2 \times \pi \times 110</math></p> <p>= 163 to 163.21 (cm)</p>	<p>M1</p> <p>A1</p>	<p>Or <math>\frac{935\pi}{18}</math> or equivalent</p>
<p>11(b) (Length of rod =)</p> <p><math>\sqrt{(110^2 + (110 - 16)^2 - 2 \times 110 \times (110 - 16) \times \cos 85^\circ)}</math> (=<math>\sqrt{19133.6(192\dots)}</math>) = 138(.324...) (cm)</p> <p>(Angle =) <math>\sin^{-1}\left(\frac{\sin 85^\circ}{138(.324\dots)} \times (110 - 16)\right)</math> OR</p> <p>(Angle =) <math>\cos^{-1}\left(\frac{110^2 + 138(.324\dots)^2 - (110 - 16)^2}{2 \times 110 \times 138(.324\dots)}\right)</math> OR</p> <p>full complete method using the sine rule to find the angle at the top of the triangle and then use of angles in a triangle</p> <p>= 42.6 to 42.7(3...) (°)</p>	<p>M2</p> <p>A1</p> <p>M2</p> <p>A1</p>	<p>M1 for length<sup>2</sup> = 110<sup>2</sup> + (110 – 16)<sup>2</sup> – 2 × 110 × (110 – 16) × cos85(°)</p> <p>FT 'their derived 138(.324...)'</p> <p>M1 for</p> <ul style="list-style-type: none"> <li>• <math>\frac{\sin(\text{angle})}{(110 - 16)} = \frac{\sin 85^\circ}{138(.324\dots)}</math> or equivalent or</li> <li>• <math>\sin(\text{angle}) = \frac{\sin 85^\circ}{138(.324\dots)} \times (110 - 16)</math></li> </ul> <p>OR</p> <p>M1 for</p> <ul style="list-style-type: none"> <li>• <math>(110 - 16)^2 = 110^2 + 138(.324\dots)^2 - 2 \times 110 \times 138(.324\dots) \times \cos(\text{angle})</math> or</li> <li>• <math>\cos(\text{angle}) = \frac{110^2 + 138(.324\dots)^2 - (110 - 16)^2}{2 \times 110 \times 138(.324\dots)}</math></li> </ul> <p>OR M1 for finding the angle at the top of the triangle (52.2(6...) to 53 (°))</p> <p>Accept 43 (°) from correct working</p>



<p>12(a)            (Area of triangle AOB =) <math>\frac{1}{2} \times 30.9^2 \times \sin 150^\circ</math>            or equivalent full method            = 238.7(025) or 239 (cm<sup>2</sup>)</p>	<p>M1 A1</p>	
<p>12(b) Adding two equal sectors to the area of the triangle            (Area of 2 sectors =) <math>(2 \times) \frac{(180 - 150)/2}{360} \times \pi \times 30.9^2</math>            = 249.8 to 250(.00...) (cm<sup>2</sup>)</p> <p>(Number of litres that can be added =)  <math>(249.9(686...) + 238.7(025)) \times 600 \quad (\div 1000)</math>            or <math>(488.5 \text{ to } 489) \times 600 \quad (\div 1000)</math></p> <p>= 293 to 293.4 (litres)</p>	<p>S1 M1 A1 M2 A2</p>	<p>May be embedded in a volume calculation i.e. <math>\times 600</math>            Or <math>31827\pi/400</math> (cm<sup>2</sup>)            May be implied by 488.5 to 489 (cm<sup>2</sup>) (total area)            May be implied by volume of 149800 to 150001 (cm<sup>3</sup>)</p> <p>FT 'their 238.7(025)' and 'their 249.9(686...)' provided            M1 previously awarded            M1 (may be embedded within incorrect work) for</p> <ul style="list-style-type: none"> <li>• <math>(249.9(686...) + 238.7(025))</math> or</li> <li>• <math>(249.9(686...) + \dots) \times 600</math></li> </ul> <p>OR            M1 (may be embedded within incorrect work) for</p> <ul style="list-style-type: none"> <li>• <math>(\dots + 238.7(025)) \times 600</math></li> </ul> <p>where previous M1 may not have been awarded</p> <p>FT from M2 only            A1 for 293 000 to 293 400 (cm<sup>3</sup>)</p>
<p><i>Alternative method:</i>            Area of semicircle subtract (area of the large sector – area of triangle)            (Area of large sector =) <math>\frac{150}{360} \times \pi \times 30.9^2</math> or equivalent            = 1249 to 1250 (cm<sup>2</sup>)</p> <p>(Number of litres that can be added =)  <math>(\pi \times 30.9^2 \div 2 - (1249.8(\dots) - 238.7(025))) \times 600</math>  <math>(\div 1000)</math>            or <math>((1499 \text{ to } 1500.01) - (1010... \text{ to } 1011.3)) \times 600</math>  <math>(\div 1000)</math></p> <p>= 293 to 293.4 (litres)</p>	<p>S1 M1 A1 M2 A2</p>	<p>May be embedded in a volume calculation i.e. <math>\times 600</math>            Or <math>31827\pi/80</math> (cm<sup>2</sup>)            749 400 to 750 000 (cm<sup>3</sup>) if volumes considered</p> <p>FT 'their 238.7(025)' and 'their 1249.8(...)' provided            M1 previously awarded            M1 (may be embedded within incorrect work) for</p> <ul style="list-style-type: none"> <li>• <math>\pi \times 30.9^2 \div 2 - (1249.8(\dots) - 238.7(025))</math> or</li> <li>• <math>(1249.8(\dots) - 238.7(025)) \times 600</math> or</li> <li>• <math>(\pi \times 30.9^2 \div 2 - (1249.8(\dots) - \dots)) \times 600</math></li> </ul> <p>OR            M1 (may be embedded within incorrect work) for</p> <ul style="list-style-type: none"> <li>• <math>(\pi \times 30.9^2 \div 2 - (\dots - 238.7(025))) \times 600</math></li> </ul> <p>where previous M1 may not have been awarded</p> <p>FT from M2 only            A1 for 293 000 to 293 400 (cm<sup>3</sup>)</p>