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**Functional Skills Level 2**  
**MATHEMATICS**

**8362/2**

Paper 2 Calculator

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**Mark scheme**

November 2021

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Version: 1.0 Final



Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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**Glossary for Mark Schemes**

Functional Skills examinations are marked in such a way as to award positive achievement wherever possible. Thus, for Functional Skills Mathematics papers, marks are awarded under various categories.

If a student uses a method which is not explicitly covered by the mark scheme the same principles of marking should be applied. Credit should be given to any valid methods. Examiners should seek advice from their senior examiner if in any doubt.

|                        |  |
|------------------------|--|
| <b>M</b>               | Method marks are awarded for a correct method which could lead to a correct answer.  |
| <b>A</b>               | Accuracy marks are awarded when following on from a correct method. It is not necessary to always see the method. This can be implied. |
| <b>B</b>               | Marks awarded independent of method.   |
| <b>ft</b>              | Follow through marks. Marks awarded for correct working following a mistake in an earlier step.  |
| <b>SC</b>              | Special case. Marks awarded for a common misinterpretation which has some mathematical worth.  |
| <b>M dep</b>           | A method mark dependent on a previous method mark being awarded.   |
| <b>B dep</b>           | A mark that can only be awarded if a previous independent mark has been awarded.   |
| <b>oe</b>              | Or equivalent. Accept answers that are equivalent.<br>eg accept 0.5 as well as $\frac{1}{2}$   |
| <b>[a, b]</b>          | Accept values between a and b inclusive.   |
| <b>[a, b)</b>          | Accept values $a \leq \text{value} < b$  |
| <b>3.14 ...</b>        | Accept answers which begin 3.14 eg 3.14, 3.142, 3.1416   |
| <b>Use of brackets</b> | It is not necessary to see the bracketed work to award the marks.  |

Examiners should consistently apply the following principles.

### **Diagrams**

Diagrams that have working on them should be treated like normal responses. If a diagram has been written on but the correct response is within the answer space, the work within the answer space should be marked. Working on diagrams that contradicts work within the answer space is not to be considered as choice but as working, and is not, therefore, penalised.

### **Responses which appear to come from incorrect methods**

Whenever there is doubt as to whether a student has used an incorrect method to obtain an answer, as a general principle, the benefit of doubt must be given to the student. In cases where there is no doubt that the answer has come from incorrect working then the student should be penalised.

### **Questions which ask students to show working**

Instructions on marking will be given but usually marks are not awarded to students who show no working.

### **Questions which do not ask students to show working**

As a general principle, a correct response is awarded full marks.

### **Misread or miscopy**

Students often copy values from a question incorrectly. If the examiner thinks that the student has made a genuine misread, then only the accuracy marks (A or B marks), up to a maximum of 2 marks are penalised. The method marks can still be awarded.

### **Further work**

Once the correct answer has been seen, further working may be ignored unless it goes on to contradict the correct answer.

### **Choice**

When a choice of answers and/or methods is given, mark each attempt. If both methods are valid then M marks can be awarded but any incorrect answer or method would result in marks being lost.

### **Work not replaced**

Erased or crossed out work that is still legible should be marked.

### **Work replaced**

Erased or crossed out work that has been replaced is not awarded marks.

### **Premature approximation**

Rounding off too early can lead to inaccuracy in the final answer. This should be penalised by 1 mark unless instructed otherwise.

### **Continental notation**

Accept a comma used instead of a decimal point (for example, in measurements or currency), provided that it is clear to the examiner that the student intended it to be a decimal point.

**Section A**

| Q | Answer        | Mark | Comments |
|---|---------------|------|----------|
| 1 | $\frac{2}{5}$ | B1   |          |

| Q | Answer   | Mark | Comments                 |
|---|--|------|--------------------------|
| 2 | (+)10.24 seen<br>or<br>$(-3.2)^2$ attempted before adding to 5<br>or<br>$5 + (-3.2)^2$ | M1   | condone without brackets |
|   | 15.24  | A1   | SC1 -5.24                |
|   | <b>Additional Guidance</b>   |      |                          |
|   | $(5 - 3.2)^2$  |      | MOA0                     |

| Q | Answer     | Mark | Comments  |
|---|------------|------|---|
| 3 | $(-2, -3)$ | B2   | B1 for<br>$(-2, y)$ or $(x, -3)$ where $x$ and $y$ can be any numbers<br>or<br>$x = -2$ or $y = -3$<br>or<br>position of point B unambiguously marked on the grid<br>SC1 $(-3, -2)$ |

| Q | Answer               | Mark | Comments |
|---|----------------------|------|----------|
| 4 | -5 in the first box  | B1   |          |
|   | -6 in the second box | B1   |          |
|   | -1 in the third box  | B1   |          |

| Q | Answer   | Mark | Comments   |
|---|--|------|--|
| 5 | 8 : 5  | B2   | B1 for an equivalent ratio that is not fully simplified eg 72 : 45 |
|   | <b>Additional Guidance</b>   |      |  |
|   | A correct simplified ratio from 144 : 90 followed by an incorrect simplified ratio eg 72 : 45 followed by 9 : 5  |      | B1   |
|   | An incorrect simplified ratio from 144 : 90 followed by a correct simplified ratio eg 70 : 45 followed by 14 : 9 |      | B0   |
|   | Condone ratio not in integer form eg 1.6 : 1 or 1 : 0.625  |      | B1   |
|   | eg equivalent ratios 16 : 10, 24 : 15, 48 : 30, 72 : 45  |      | B1   |

| Q | Answer        | Mark | Comments       |
|---|---------------|------|----------------|
| 6 | 180 – 42 – 42 | M1   | oe eg 180 – 84 |
|   | 96            | A1   |                |

**Section B**

| Q           | Answer   | Mark  | Comments   |            |
|-------------|--|-------|--|------------|
| <b>7(a)</b> | 3 or 40 or 2000<br>or<br>0.03 or 0.4 or 2000   | M1    |  |            |
|             | 3 × 2000 or 6000<br>or<br>0.03 × 2000 or 60  | M1dep |  |            |
|             | 40 × 30 or 1200<br>or<br>0.4 × 30 or 12  | M1dep | dep on 1st M1<br>condone use of 28, 29 or 31 for 30<br>condone 40 × 30 rounded to 1000<br>condone 0.4 × 30 rounded to 10 |            |
|             | their 6000 + their 1200 or 7200<br>or<br>their 60 + their 12                                   | M1dep | dep on M1M1M1  |            |
|             | 72(.00)  | A1    |  |            |
|             | <b>Additional Guidance</b>   |       |  |            |
|             | If a student rounds the 1200 or 12 in the third mark to 1000 or 10 they can score a maximum of |       |  | M1M1M1M1A0 |
|             | $3 \times 2000 = 6000$<br>$40 \times 28 = 1120$<br>$6000 + 1120 = 7120$<br>71.20               |       |  | M1M1M1M1A0 |
|             | $3 \times 2000 = 6000$<br>$40 \times 30 = 1200$<br>$6000 + 1200 = 7200$<br>70                  |       |  | M1M1M1M1A0 |

| Q    | Answer   | Mark  | Comments               |
|------|--|-------|------------------------|
| 7(b) | <b>Alternative method 1</b>                                      |       |                        |
|      | 360 – 198 or 162   | M1    | may be seen on diagram |
|      | $\frac{\text{their } 162}{360} (\times 100)$<br>or 0.45 or 45(%) | M1dep | oe                     |
|      | 45 (%) and Yes<br>or<br>0.45 and 0.43 and Yes                    | A1    |                        |
|      | <b>Alternative method 2</b>                                      |       |                        |
|      | 100 – 43 or 57(%)  | M1    |                        |
|      | $\frac{198}{360} (\times 100)$<br>or 0.55 or 55(%)               | M1    | oe                     |
|      | 55(%) and 57(%) and Yes<br>or<br>0.57 and 0.55 and Yes           | A1    |                        |
|      | <b>Alternative method 3</b>                                      |       |                        |
|      | $\frac{198}{360} (\times 100)$<br>or 0.55 or 55(%)               | M1    | oe                     |
|      | 100 – their 55 or 45<br>or<br>1 – their 0.55 or 0.45             | M1dep |                        |
|      | 45(%) and Yes<br>or<br>0.45 and 0.43 and Yes                     | A1    |                        |
|      | <b>Alternative method 4</b>                                      |       |                        |
|      | $0.43 \times 360$ or [154, 155]                                  | M1    | oe eg $43 \times 3.6$  |
|      | 360 – 198 or 162   | M1    | may be seen on diagram |
|      | [154, 155] and 162 and Yes                                       | A1    |                        |

Mark scheme and Additional guidance continue on the next page

| Q            | Answer                                      | Mark  | Comments |  |
|--------------|---|-------|----------|--|
| 7(b)<br>cont | <b>Alternative method 5</b>                 |       |          |  |
|              | 100 – 43 or 57(%)                           | M1    |          |  |
|              | $0.57 \times 360$ or [205, 206]             | M1dep | oe       |  |
|              | [205, 206] and Yes                          | A1    |          |  |
|              | <b>Additional Guidance</b>                  |       |          |  |
|              | Switch or MixGas is sufficient to imply Yes |       |          |  |
|              | Check diagram for working                   |       |          |  |

| Q    | Answer  | Mark  | Comments |
|------|---|-------|----------|
| 7(c) | 100 – 27 or 73<br>or<br>1 – 0.27 or 0.73  | M1    |          |
|      | $4803.4(0) \div \text{their } 73 \times 100$<br>or<br>$4803.4(0) \div \text{their } 0.73$ | M1dep | oe       |
|      | 6580  | A1    |          |
|      | <b>Additional Guidance</b>  |       |          |
|      | 1296.92 or 6100.32 or 3506.48   |       |          |

| Q           | Answer   | Mark  | Comments   |
|-------------|--|-------|--|
| <b>8(a)</b> | <b>Alternative method 1</b>  |       |  |
|             | $\pi \times 30$ or [94.2, 94.3]<br>or<br>$\pi \times 30 \times 0.5$ or [47.1, 47.15]   | M1    |  |
|             | 120 + 120 + their [94.2, 94.3]<br>or<br>120 + 120 + 2 × their [47.1, 47.15]<br>or<br>[334.2, 334.3]<br>or<br>4 × their [94.2, 94.3]<br>or [376.8, 377.2] | M1dep | oe   |
|             | 4 × their [334.2, 334.3]<br>or<br>(120 + 120) × 4 + their [376.8, 377.2]<br>or<br>[1336.8, 1337.2]   | M1    | oe<br>their [334.2, 334.3] must be their length of one lap<br>their total straights + their total curves |
|             | their [1336.8, 1337.2] ÷ 5000 (× 100)  | M1    | oe their [1336.8, 1337.2] must be their length of walk   |
|             | [26.7, 26.8] or 27   | A1    |  |

Mark scheme continues on the next page

| Q                    | Answer  | Mark  | Comments  |
|----------------------|---|-------|---|
| <b>8(a)<br/>cont</b> | <b>Alternative method 2</b>   |       |   |
|                      | $\pi \times 30$ or [94.2, 94.3]<br>or<br>$\pi \times 30 \times 0.5$ or [47.1, 47.15]                | M1    |   |
|                      | 120 + 120 + their [94.2, 94.3]<br>or<br>120 + 120 + 2 × their [47.1, 47.15]<br>or<br>[334.2, 334.3] | M1dep | oe  |
|                      | their [334.2, 334.3] ÷ 5000 (× 100)<br>or [0.066, 0.067] (× 100) or<br>[6.6, 6.7]                   | M1    | oe their [334.2, 334.3] must be their length of one lap |
|                      | their [6.6, 6.7] × 4  | M1    | their [6.6, 6.7] must be their percentage for one lap   |
|                      | [26.7, 26.8] or 27  | A1    |   |

| Q           | Answer   | Mark  | Comments                                  |
|-------------|--|-------|---|
| <b>8(b)</b> | <b>Alternative method 1</b>  |       |   |
|             | 420 ÷ (2 + 5) or 420 ÷ 7 or 60<br>or<br>420 × 5 or 2100  | M1    | oe  |
|             | their 60 × 5 or 300<br>or<br>their 2100 ÷ 7 or 300   | M1dep | oe  |
|             | 12 × 1000 ÷ their 300<br>or<br>12 000 ÷ their 300  | M1    | oe eg 12 ÷ 0.3<br>their 300 must be < 420 |
|             | 40   | A1    |   |
|             | <b>Alternative method 2</b>  |       |   |
|             | 12 ÷ 5 or 2.4  | M1    |   |
|             | 2 × their 2.4 : 5 × their 2.4<br>or 4.8 : 12<br>or<br>2 × their 2.4 + 5 × their 2.4<br>or 4.8 + 12 or 16.8 | M1dep | oe  |
|             | their 16.8 × 1000 ÷ 420<br>or<br>16 800 ÷ 420  | M1dep | oe  |
|             | 40   | A1    |   |
|             | <b>Additional Guidance</b>   |       |   |
|             | Award first M1 for 420 ÷ 7 = 60 even if not used unless contradicted by 420 ÷ 2 and/or 420 ÷ 5             |       |   |
|             | 420 ÷ 5 = 84 and 12 000 ÷ 84   |       | M0M0M1A0                                  |
|             | 420 ÷ 7 = 60 and 60 × 2 = 120 and 12 000 ÷ 120 = 100   |       | M1M0M1A0                                  |
|             | Beware 60 coming from 12 × 5   |       | M0  |

| Q    | Answer  | Mark  | Comments  |
|------|---|-------|-----------|
| 8(c) | 2.4 × 2.25 or 5.4<br>or<br>2.4 ÷ 6 or 0.4<br>or<br>2.25 ÷ 6 or 0.375            | M1    |           |
|      | their 5.4 ÷ 6<br>or<br>their 0.4 × 2.25<br>or<br>their 0.375 × 2.4<br>or<br>0.9 | M1dep |           |
|      | their 0.9 ÷ 0.72  | M1dep |           |
|      | 1.25  | A1    | oe 125 cm |

|      | Answer   | Mark  | Comments   |
|------|--|-------|--|
| 9(a) | <b>Alternative method 1 – comparing speed</b>            |       |  |
|      | $\frac{50 \times 25}{38 \times 60}$<br>or [0.5, 0.55]    | M3    | M2 for<br>50 × 25 and 38 × 60<br>or 1250 and 2280<br>or<br>50 × 25 ÷ 38 or 32.89...<br>or<br>38 ÷ 50 × 60 or 45.6<br>or<br>25 ÷ (38 × 60) or 0.01...<br><br>M1 for<br>50 × 25 or 1250<br>or<br>38 × 60 or 2280<br>or<br>38 ÷ 50<br>or<br>50 ÷ 38 |
|      | [0.5, 0.55] and No                                       | A1    |  |
|      | <b>Alternative method 2 – comparing times in minutes</b> |       |  |
|      | 50 × 25 ÷ 0.7 or [1785, 1786]                            | M2    | M1 for 50 × 25 or 1250<br>or 25 ÷ 0.7 or 35.7...   |
|      | their [1785, 1786] ÷ 60 or [29, 30]                      | M1dep | dep on at least M1 scored  |
|      | [29, 30] and No  | A1    |  |
|      | <b>Alternative method 3 – comparing times in seconds</b> |       |  |
|      | 50 × 25 ÷ 0.7 or [1785, 1786]                            | M2    | M1 for 50 × 25 or 1250<br>or 25 ÷ 0.7 or 35.7...   |
|      | 38 × 60 or 2280  | M1    |  |
|      | [1785, 1786] and 2280 and No                             | A1    |  |

Mark scheme and Additional guidance continue on the next page

| Q                    | Answer  | Mark  | Comments   |
|----------------------|---|-------|--|
| <b>9(a)<br/>cont</b> | <b>Alternative method 4 – using lengths from swimming at 0.7 m/s</b>                  |       |  |
|                      | 38 × 60 or 2280   | M1    |  |
|                      | their 2280 × 0.7 or 1596  | M1dep |  |
|                      | 50 × 25 or 1250<br>or<br>their 1596 ÷ 25 or 63.84<br>or<br>their 1596 ÷ 50 or 31.9(2) | M1    | their 1596 must be from correct method   |
|                      | 1250 and 1596 and No<br>or<br>63.84 (lengths) and No<br>or<br>31.9(2) (metres) and No | A1    | actual total length and total length at 0.7 m/s<br>number of lengths at 0.7 m/s<br>length of pool at 0.7 m/s |
|                      | <b>Alternative method 5 – comparing metres/minute</b>                                 |       |  |
|                      | 50 × 25 or 1250   | M1    |  |
|                      | their 1250 ÷ 38 or 32.89...   | M1dep |  |
|                      | 0.7 × 60 or 42  | M1dep |  |
|                      | 32.89... and 42 and No  | A1    |  |
|                      | <b>Additional Guidance</b>  |       |  |
|                      | Allow equivalent working using one length   |       |  |

| Q           | Answer  | Mark  | Comments   |
|-------------|---|-------|--|
| <b>9(b)</b> | <b>Alternative method 1</b>   |       |  |
|             | $35 \times \frac{6}{7}$ or 30   | M1    | oe   |
|             | their $30 \times 0.25$ or 7.5(0)<br>or<br>their $30 \times 1.25$ or 37.5(0)<br>or<br>42.5 | M1    | oe<br>their 30 must be their $\frac{6}{7}$ of 35<br>implied by $10 \leq \text{their } 30 < 35$ |
|             | 42.50   | A1    | correct money notation   |
|             | <b>Alternative method 2</b>   |       |  |
|             | $\frac{25}{100} \times 35$ or 8.75  | M1    |  |
|             | their $8.75 \times \frac{6}{7}$ or 7.5(0)   | M1dep |  |
|             | 42.50   | A1    | correct money notation   |

| Q           | Answer   | Mark  | Comments   |
|-------------|--|-------|--|
| <b>9(c)</b> | <b>Alternative method 1</b>  |       |  |
|             | 5, 15, 25, 35, 45  | B1    | correct midpoints, allow one error                         |
|             | their $5 \times 7 +$ their $15 \times 4 +$ their $25 \times 6 +$ their $35 (\times 1) +$ their $45 \times 2$<br>or<br>$35 + 60 + 150 + 35 + 90$<br>or<br>370 | M1    | condone their midpoints on or between the class boundaries |
|             | their $370 \div 20$ or 18.5(0)   | M1dep | dep on previous mark                                       |
|             | 14.85 + 3 or 17.85<br>or<br>their $18.5(0) - 3$ or 15.5(0)<br>or<br>their $18.5(0) - 14.85$ or 3.65  | M1    | their 18.5(0) must come from correct method                |
|             | 18.5(0) and 17.85<br>or<br>15.5(0)<br>or<br>3.65   | A1    |  |
|             | <b>Alternative method 2</b>  |       |  |
|             | 5, 15, 25, 35, 45  | B1    | correct midpoints, allow one error                         |
|             | their $5 \times 7 +$ their $15 \times 4 +$ their $25 \times 6 +$ their $35 (\times 1) +$ their $45 \times 2$<br>or<br>$35 + 60 + 150 + 35 + 90$<br>or<br>370 | M1    | condone their midpoints on or between the class boundaries |
|             | 14.85 + 3 or 17.85   | M1    |  |
|             | their $17.85 \times 20$ or 357   | M1dep | dep on previous mark                                       |
|             | 357 and 370  | A1    |  |

Mark scheme and Additional guidance continue on the next page

| Q            | Answer   | Mark  | Comments   |
|--------------|--|-------|--|
| 9(c)<br>cont | <b>Alternative method 3</b>  |       |  |
|              | 5, 15, 25, 35, 45  | B1    | correct midpoints, allow one error                         |
|              | their $5 \times 7 +$ their $15 \times 4 +$ their $25 \times 6 +$ their $35 (\times 1) +$ their $45 \times 2$<br>or<br>$35 + 60 + 150 + 35 + 90$<br>or<br>370 | M1    | condone their midpoints on or between the class boundaries |
|              | 14.85 + 3 or 17.85   | M1    |  |
|              | their 370 $\div$ their 17.85   | M1dep | dep on previous two marks                                  |
|              | 20.7(...)  | A1    | accept 21 with correct working                             |
|              | <b>Additional Guidance</b>   |       |  |
|              | Alt 1 condone their 18.5(0) coming from midpoints on or between the class boundaries   |       |  |

| Q            | Answer  | Mark | Comments  |
|--------------|---|------|---|
| <b>10(a)</b> | <b>Alternative method 1</b>                         |      |   |
|              | One correct area towards calculating the total area | M1   | eg $3 \times 4$ or 12<br>or $3.4 \times 4.5$ or 15.3<br>or $4.5 \times 4$ or 18<br>or $(4.5 - 3) \times 3.4$ or 5.1<br>or $(3.4 + 4) \div 2 \times (4.5 - 3)$ or 5.55<br>or $(3 + 4.5) \div 2 \times (4 - 3.4)$ or 2.25<br>or $(4 - 3.4) \times 3$ or 1.8<br>or $0.6 \times 3$ or 1.8<br>or $(4 - 3.4) \times (4.5 - 3) \div 2$ or 0.45<br>or $0.6 \times 1.5 \div 2$ or 0.45 |
|              | Complete method to calculate area                   | M1   |   |
|              | 17.55   | A1   |   |
|              | their $17.55 \times 0.1$                            | M1   | oe can be implied<br>their 17.55 must be from an area calculation   |
|              | 1.755   | A1ft | ft their 17.55  |
|              | $m^3$ or cubic metres                               | B1   | accept $cm^3$ or cubic centimetres if working in cm   |

**Mark scheme and Additional guidance continue on the next page**

| Q  | Answer  | Mark         | Comments  |
|--|---|--------------|---|
| <b>10(a)<br/>cont</b>  | <b>Alternative method 2</b>   |              |   |
|  | One correct area towards calculating the total area   | M1           | could be implied<br>eg $3 \times 4$ or 12<br>or $3.4 \times 4.5$ or 15.3<br>or $4.5 \times 4$ or 18<br>or $(4.5 - 3) \times 3.4$ or 5.1<br>or $(3.4 + 4) \div 2 \times (4.5 - 3)$ or 5.55<br>or $(3 + 4.5) \div 2 \times (4 - 3.4)$ or 2.25<br>or $(4 - 3.4) \times 3$ or 1.8<br>or $0.6 \times 3$ or 1.8<br>or $(4 - 3.4) \times (4.5 - 3) \div 2$ or 0.45<br>or $0.6 \times 1.5 \div 2$ or 0.45 |
|  | Multiplying at least one correct area by 0.1  | M1           | eg $3 \times 4 \times 0.1$ or 1.2   |
|  | One correct volume calculated   | A1           | one correct volume of concrete for their section of floor with working shown eg 1.2 or 1.53, etc  |
|  | Complete method for calculating the volume of concrete  | M1           |   |
|  | 1.755   | A1           |   |
|  | $\text{m}^3$ or cubic metres  | B1           | accept $\text{cm}^3$ or cubic centimetres if working in cm  |
|  | <b>Additional Guidance</b>  |              |   |
|  | Accept working in cm throughout   |              |   |
|  | For first M1 allow attempt to find a volume at this stage. Do not accept a multiplication seen as part of a multiplication string involving another length or seen in a number of multiplications<br>eg1 $3.4 \times 4.5 \times 4$<br>eg2 $3.4 \times 4.5 = 15.3$ followed by $15.3 \times 4$<br>eg3 $3.4 \times 4.5 \times 10 = 153$ (condone $\times$ by 10 as attempt at volume)<br>eg4 $17.55$ followed by $17.55 \times 0.1 \times 4 = 7.02\text{m}^3$ |              | M0<br>M0<br>M1<br>M1M1A1M0A0B1  |
| 1.8 without working<br>$4.5 \times 4 = 18$ followed by 1.8 implies |   | M1<br>M1M1A1 |   |

| Q            | Answer  | Mark  | Comments   |
|--------------|---|-------|--|
| <b>10(b)</b> | <b>Alternative method 1</b>   |       |  |
|              | $23.4 \times 50 \div 3$ or 390<br>or<br>$0.234 \times 50 \div 3$ or 3.9                     | M2    | M1 for $23.4 \times 50$ or 1170<br>or<br>$0.234 \times 50$ or 11.7<br>or<br>$23.4 \div 3$ or 7.8<br>or<br>$0.234 \div 3$ or 0.078<br>or<br>$50 \div 3$ or [16.6, 16.7] |
|              | 390 and 400 and Yes<br>or<br>3.9 and Yes  | A1    | implied by 10 cm less or 0.1 less<br>or $3.9 < 4$  |
|              | <b>Alternative method 2</b>   |       |  |
|              | $4 \times 100 \div 50$ or 8   | M1    |  |
|              | their $8 \times 3$ or 24  | M1dep | oe   |
|              | 24 and Yes  | A1    |  |
|              | <b>Additional Guidance</b>  |       |  |
|              | If $50 \div 3$ is calculated before multiplication by 23.4, allow [388.4, 390.8]<br>for 390 |       |  |
|              | Accept a correct value in cm rounded or truncated when converted to metres                  |       |  |

| Q            | Answer                                      | Mark   | Comments   |
|--------------|---|--------|------------|
| <b>10(c)</b> | <b>Alternative method 1</b>                 |        |            |
|              | 12 ÷ 3 or 4                                 | M1     | oe         |
|              | their 4 × 14.73                             | M1dep  | oe         |
|              | 58.92                                       | A1     | SC2 117.84 |
|              | <b>Alternative method 2</b>                 |        |            |
|              | 12 × 14.73 or 176.76                        | M1     | oe         |
|              | their 176.76 ÷ 3                            | M1dep  | oe         |
|              | 58.92                                       | A1     | SC2 117.84 |
|              | <b>Additional Guidance</b>                  |        |            |
|              | 12 ÷ 2 or 6<br>and 14.73 × their 6 or 88.38 | MOM0A0 |            |



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