

GCSE Applications of Mathematics (Linked Pair)

Foundation Tier Unit 2 – Geometry and Measures Mark scheme

9370/2F November 2016

Version/Stage: 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 Assessment Writer.

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Glossary for Mark Schemes

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

| М | Method marks are awarded for a correct method which could lead to a correct answer. |
|-----------------|--|
| Mdep | A method mark dependent on a previous method mark being awarded. |
| A | Accuracy marks are awarded when following on from a correct method. It is not necessary to always see the method. This can be implied. |
| В | Marks awarded independent of method. |
| B dep | A mark that can only be awarded if a previous independent mark has been awarded. |
| Q | Marks awarded for quality of written communication. |
| ft | Follow through marks. Marks awarded for correct working following a mistake in an earlier step. |
| SC | Special case. Marks awarded for a common misinterpretation which has some mathematical worth. |
| oe | Or equivalent. Accept answers that are equivalent. |
| | eg accept 0.5 as well as $\frac{1}{2}$ |
| [a, b] | Accept values between a and b inclusive. |
| 25.3 | Allow answers which begin 25.3 e.g. 25.3, 25.31, 25.378. |
| Use of brackets | 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 candidate has used an incorrect method to obtain an answer, as a general principle, the benefit of doubt must be given to the candidate. In cases where there is no doubt that the answer has come from incorrect working then the candidate should be penalised.

Questions which ask candidates to show working

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

Questions which do not ask candidates to show working

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

Misread or miscopy

Candidates often copy values from a question incorrectly. If the examiner thinks that the candidate 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 candidate intended it to be a decimal point.

| Q Answer Mark Comments |
|------------------------|
|------------------------|

| | Draws line <i>BD</i> | B1 | |
|---|---|----|---|
| 1 | Line joining midpoint of <i>BC</i> to midpoint of <i>CD</i> | B2 | B1 midpoint of <i>CD</i> and midpoint of <i>BC</i> identified |

| 2(a) | 1030 | B1 | |
|------|------|----|--|
|------|------|----|--|

| | 42 min or 45 min | M1 | |
|------|---|----------|-------------------------------|
| 2(b) | Ticks Yes and 42 min is less than three-quarters of an hour or Ticks Yes and 42 min and 45 min or Ticks Yes | M1 A1 | oe eg Ticks Yes and 3 minutes |
| | and 1015 or 1045 or 1115 or 1145 or 1215 | | |

| Q | Answer | Mark | Comments | | |
|------|---|------|---------------------|--|--|
| | | | | | |
| | 23 | B2 | B1 (0)9.55 or 10.18 | | |
| 2(c) | Additional Guidance | | | | |
| | B1 allow (0)9:55 or (0)955 or 10:18 or 1018 | | | | |

| | Draws a square with side length [9.8, 10.2] cm | B1 | |
|---|---|------|--|
| 3 | Draws a circle with radius [4.8, 5.2] cm | B1 | |
| | Draws a vertical diameter and a horizontal diameter on their circle | B1ft | ft their circle |
| | Shades in the top right sector of their circle | B1ft | ft their circle divided into 4 sectors |

| Q | Answer | Mark | Comments | | | |
|---|---|-------|---|--|--|--|
| | | | | | | |
| | Alternative method 1 | | | | | |
| | 2 + 5 + 5 + 10 + 10 + 10 + 10 + 20 or 72 | M1 | oe Allow one error or omission | | | |
| | their 72 ÷ 6 or 12 | M1dep | | | | |
| | 10p and 2p | A1 | SC2 5p, 5p and 2p | | | |
| | Alternative method 2 | | | | | |
| 4 | Adds two coins and adds the remaining six coins | M1 | eg 2 + 5 = 7 and 5 + 10 + 10 + 10 + 10 + 20 = 65 | | | |
| | Repeats with a different choice | M1dep | | | | |
| | 10p and 2p | A1 | SC2 5p, 5p and 2p | | | |
| | Alternative method 3 | | | | | |
| | Adds two coins and multiplies the total by 5 | M1 | eg 2 + 5 = 7 and 7 × 5 = 35 | | | |
| | Repeats with a different choice | M1dep | | | | |
| | 10p and 2p | A1 | SC2 5p, 5p and 2p | | | |

| | \checkmark | | B3 4 correct |
|---|---|----|--------------|
| | \checkmark | | B2 3 correct |
| | v | | B1 2 correct |
| | × | B4 | |
| 5 | \checkmark | | |
| | × | | |
| | Additional Guidance | | |
| | In the comments, 'correct' means a \checkmark or a $ 	imes $ as appropriate | | |

| Q | Answer | Mark | Comments |
|---|--------|------|----------|
|---|--------|------|----------|

| | Alternative method 1 | | |
|---|--------------------------------|-------|----------|
| | 112 ÷ 100 or 1.12 | M1 | |
| | their 1.12 × [2.5, 3.5] | M1dep | |
| | [2.8, 3.92] | A1 | |
| | Alternative method 2 | | |
| 6 | 112 × [2.5, 3.5] or [280, 392] | M1 | |
| | their [280, 392] ÷ 100 | M1dep | |
| | [2.8, 3.92] | A1 | |
| | | | |
| | Answer [2.8, 3.92] | | M1 M1 A1 |

| 7(a) | 28 | B1 | |
|------|----|----|--|
|------|----|----|--|

| Q | Answer | Mark | Comments |
|---|--------|------|----------|
|---|--------|------|----------|

| | 11.48 ÷ their 28 or (0.)41 | M1 | oe their 28 from (a) |
|------|---------------------------------|-------|--|
| 7(b) | [30, 38] × their (0.)41 or 1394 | M1dep | |
| | 13.94 | A1ft | Only ft their 28 from (a) and use of 34 in 2nd M1 SC2 6.97 |

| 7(c) | Fits a total of 4 more 0s, all the correct size | B2 | B1 Fits at least two more 0s, the correct size |
|------|---|----|--|
|------|---|----|--|

| | Draws bearing [033, 037] ^o at P | | B1 Draws bearing [033, 037] ^o at P |
|---|--|----|---|
| | and | | or |
| 8 | draws bearing [308, 312]º at Q | B2 | draws bearing [308, 312]º at Q |
| | and | | |
| | lines cross (marked S) | | |

| 0(a) | (<i>a</i> =) 210 | B1 | SC1 $a = 162$ and $b = 210$ |
|------|-------------------|----|-----------------------------|
| 9(a) | (<i>b</i> =) 162 | B1 | 301 u = 102 and v = 210 |

| 9(b) | (<i>c</i> =) 60 | B1 | |
|------|------------------|----|--|
|------|------------------|----|--|

| Q | Answer | Mark | Comments |
|---|--------|------|----------|
|---|--------|------|----------|

| | (<i>d</i> =) 76 | B1 | |
|------|--|------|------------|
| 9(c) | $\frac{180 - \text{their 76}}{2}$ or $\frac{104}{2}$ | M1 | |
| | (<i>e</i> =) 52 | A1ft | ft their d |

| 0(d) | 180 – 139 | M1 | |
|------|-----------|----|--|
| 9(d) | 41 | A1 | |

| 10(a) 6 | B1 | |
|----------------|----|--|
|----------------|----|--|

| 10(b) | 2 | B1 | |
|-------|---|----|--|
|-------|---|----|--|

| Q | Answer | Mark | Comments | | |
|-------|--|-------|--|--|--|
| | | | | | |
| | Alternative method 1 | | | | |
| | 40 – 3 × their 6 or 22 | M1 | their 6 from (a) | | |
| | their 22 \div (their 2 x 2) or their 22 \div 4 or 5.5 | M1dep | their 2 from (b) | | |
| | 5 | A1ft | ft their 6 from (a) and their 2 from (b) SC2 Answer 7 | | |
| 10(c) | Alternative method 2 | | | | |
| | 40-6 or 34 | M1 | their 6 from (a) | | |
| | their 34 ÷ 2 – 2 × their 6 or 17 – 12 | M1dep | their 6 from (a) their 2 from (b) | | |
| | 5 | A1ft | ft their 6 from (a) and their 2 from (b) SC2 Answer 7 | | |

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| Q | Answer | Mark | Comments |
|---|--------|------|----------|
| | | | |

| | Alternative method 1 | | |
|----|---|-------|--|
| | 6.5 × 1000 ÷ 500 or 6500 ÷ 500 or 6.5 ÷ 0.5 or 13 | M1 | |
| | 5 x 1000 ÷ 500 or 5000 ÷ 500 or 5 ÷ 0.5 or 10 | M1 | |
| | their 13 × their 10 or 130 | M1dep | dep on M2 |
| | their 130 ÷ 16 or 8.1 | M1dep | dep on M3 |
| | 9 with no incorrect working seen | Q1 | Strand (iii) Rounds up to nearest integer with M4 scored |
| | Alternative method 2 | | |
| | 6.5 × 5 or 32.5 | M1 | |
| 11 | (500 ÷ 1000) × (500 ÷ 1000) or 0.5 × 0.5 or 0.25 | M1 | |
| | their 32.5 ÷ their 0.25 or 130 | M1dep | dep on M2 |
| | their 130 ÷ 16 or 8.1 | M1dep | dep on M3 |
| | 9 with no incorrect working seen | Q1 | Strand (iii) Rounds up to nearest integer with M4 scored |
| | Alternative method 3 | | |
| | 6.5 × 1000 × 5 × 1000 or 6500 × 5000 or 32 500 000 | M1 | |
| | 500 × 500 or 250 000 | M1 | |
| | their 32 500 000 ÷ their 250 000 or 130 | M1dep | dep on M2 |
| | their 130 ÷ 16 or 8.1 | M1dep | dep on M3 |
| | 9 with no incorrect working seen | Q1 | Strand (iii) Rounds up to nearest integer with M4 scored |

| | Q | Answer | Mark | Comments |
|--|---|--------|------|----------|
|--|---|--------|------|----------|

| 12(a) | 15 (min) or 24 (min) or 9 (min) | M1 | oe eg $\frac{1}{4}h$ |
|-------|---------------------------------|----|----------------------|
| | 39 | A1 | |

| 12(b) | 8.4 km | B1 | |
|-------|--------|----|--|
|-------|--------|----|--|

| 12(c) | $10 \div \frac{1}{2}$ or 10×2 or $10 \div 30$ or 0.33 or $10 \div 0.3(0)$ | M1 | oe |
|-------|--|----|----|
| | 20 | A1 | |

| | 20 ÷ (1 + 3) or 20 ÷ 4 or 5 | M1 | red in 20 litres of light pink |
|----|-----------------------------|-------|----------------------------------|
| | their 5 × 3 or 15 | M1dep | white in 20 litres of light pink |
| 13 | their 15 × 2 or 30 | M1dep | dep on M2 |
| | | | red needed for dark pink |
| | 25 | A1 | |

| Q | Answer Mark | | Comments | |
|-------|---|----------|---------------------------------|------|
| | | | | |
| | 1.2 × 0.8 × 2 + 1.2 × 0.6 × 2 | | B1 1.2 × 0.8 (× 2) or 0.96 or | 1.92 |
| | $+ 0.8 \times 0.6 \times 2 = 4.32$ | | or | |
| | or $0.96 \times 2 + 0.72 \times 2 + 0.48 \times 2 = 4.32$ | B2 | 1.2 × 0.6 (× 2) or 0.72 or 1.44 | |
| 14(a) | or 2(0.96 + 0.72 + 0.48) = 4.32 | | or | |
| (a) | or 1.92 + 1.44 + 0.96 = 4.32 | | 0.8 × 0.6 (× 2) or 0.48 or 0.96 | |
| | Addi | tional G | uidance | |
| | 1.2 × 0.8 × 0.6 | | | B0 |

| | Alternative method 1 | | | | |
|-------|--|----------------------|-----------------------|----|----|
| | 4.32 × 3 × 8 or 103.68 | | | M1 | oe |
| | 15×6.5 or 97.5 | | | M1 | |
| | 103.68 and 97.5 and No | | | A1 | |
| 14(b) | Alternative method 2 | | | | |
| | 4.32 × 3 or 12.96 | 4.32 × 8 or 34.56 | 4.32 ÷ 6.5 or 0.66 | M1 | |
| | their 12.96 their 34.56 their 0.66 × 8 ÷ 6.5 × 3 ÷ 6.5 × 3 × 8 | | M1dep | oe | |
| | [15.9, 16] and No | | | A1 | |

Mark scheme for Q14(b) continues on the next page

| Q | Answer | | Mark | Comments | |
|-------|---|-------------------------|------------------------|----------|----|
| | | | | · · · | |
| | Alternative | method 3 | | | |
| | 4.32 × 3 or 12.96 | 4.32 × 8 or 34.56 | 4.32 ÷ 15 or 0.288 | M1 | |
| | their 12.96 × 8 ÷ 15 | their 34.56 × 3 ÷ 15 | their 0.288 × 3 × 8 | M1dep | oe |
| | 6.9 and No | | A1 | | |
| | Alternative method 4 | | | | |
| 14(b) | 4.32 × 3 or 12.96 | | | M1 | |
| 14(0) | 15 × 6.5 ÷ their 12.96 or 97.5 ÷ their 12.96 | | | M1dep | |
| | 7.5 and No | | | A1 | |
| | Alternative method 5 | | | | |
| | 4.32 × 8 or 34.56 | | | M1 | |
| | 15 × 6.5 ÷ their 34.56 or 97.5 ÷ their 34.56 | | M1dep | | |
| | 2.8 and N | 0 | | A1 | |

| 15(a) | Pam has $(80 + x)$ beads Ellie has $(44 - x)$ beads | B1 | |
|-------|--|----|--|
| | | | |

| Q | Answer | Mark | Comments |
|---|--------|------|----------|

| | Alternative method 1 | | | | |
|-------|--|-------|--|--|--|
| | 80 + x = 3(44 - x) | B1ft | Correct equation or ft their (a) Missing brackets may be recovered | | |
| | 80 + x = 132 - 3x | M1 | Expands their bracket, allow one error | | |
| | x + 3x = 132 - 80 | M1 | Collects terms for their equation Allow one sign error their equation must have <i>x</i> on both sides | | |
| 15(b) | 13 | Q1ft | Strand (ii) Their equation solved correctly ft their (a) if M2 and no errors SC3 13 with no equation | | |
| | Alternative method 2 | | | | |
| | 3y + y = 80 + 44 or $4y = 124$ | B1 | oe correct equation y is the number of beads Ellie now has | | |
| | (y =) 124 ÷ 4 or 31 | M1 | | | |
| | 44 – their 31 or 3 × their 31 – 80 or 93 – 80 | M1dep | | | |
| | 13 | Q1 | Strand (ii) Correct answer with correct equation seen SC3 13 with no equation | | |

Additional Guidance on next page

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| Q | Answer | wark | Comments |

| | | Additional Guidance | |
|-------|--------------------|-------------------------------------|------|
| | 80 + x = 3(44 + x) | | B1 |
| | 80 + x = 132 + 3x | | M1 |
| | 80 - 132 = 3x - x | | M1 |
| | -26 | (do not ft if solution is negative) | Q0 |
| | | | |
| | 80 - x = 3(44 + x) | | B1ft |
| | 80 - x = 132 + 3x | | M1 |
| | 80 - 132 = 3x + x | | M1 |
| 15(b) | -13 | (do not ft if solution is negative) | Q0 |
| 10(5) | | | |
| | 80 - x = 3(44 - x) | | B1ft |
| | 80 - x = 132 - 3x | | M1 |
| | 3x - x = 132 - 80 | | M1 |
| | 26 | | Q1ft |
| | | | |
| | 80 + x = 3(44 + x) | | B1ft |
| | 80 + x = 132 + 3x | | M1 |
| | 80 + 132 = 3x - x | (1 error) | M1 |
| | 106 | (do not ft if error(s) made) | Q0 |

| Q | Answer | Mark Comments | | | | | |
|----|---|---------------|---|--|--|--|--|
| | | | | | | | |
| | Alternative method 1 | | | | | | |
| | 22 × 15 × 5 or 1650 | M1 | | | | | |
| | 3.96 ÷ their 1650 or 0.0024 or their 1650 ÷ 3.96 or [416.6, 416.7] | M1dep | oe | | | | |
| | $\pi \times 10 \times 10 \times 5$ or 500π or [1570, 1571] | M1 | | | | | |
| | their [1570, 1571] × their 0.0024 or their [1570, 1571] ÷ their [416.6, 416.7] or [3.76, 3.771] | M1dep | oe dep on M3 | | | | |
| | their [3.76, 3.771] × 1.5(0) or [5.64, 5.66] | M1dep | oe dep on M4 | | | | |
| | 5.64 or 5.65 or 5.66 | Q1 | Strand (i) Must use correct money notation | | | | |
| 16 | Alternative method 2 | | | | | | |
| | 22 × 15 × 5 or 1650 | M1 | | | | | |
| | $\pi \times 10 \times 10 \times 5$ or 500π or [1570, 1571] | M1 | | | | | |
| | their [1570, 1571] ÷ their 1650 or 0.95… or their 1650 ÷ their [1570, 1571] or [1.05, 1.051] | M1dep | dep on M2 | | | | |
| | their 0.95 × 3.96 or 3.96 ÷ their [1.05, 1.051] or [3.76, 3.771] | M1dep | oe dep on M3 | | | | |
| | their [3.76, 3.771] × 1.5(0) or [5.64, 5.66] | M1dep | oe dep on M4 | | | | |
| | 5.64 or 5.65 or 5.66 | Q1 | Strand (i) Must use correct money notation | | | | |

| Q | Answer | Mark | Comments |
|---|--------|------|----------|

| | Alternative method 3 | | | | |
|----|--|-------|---|--|--|
| | 22 × 15 × 5 or 1650 | M1 | | | |
| | 3.96 ÷ their 1650 or 0.0024 | M1dep | oe | | |
| | their 0.0024 × 1.5(0) or 0.0036 | M1dep | oe dep on M2 | | |
| | $\pi \times 10 \times 10 \times 5$ or 500π or [1570, 1571] | M1 | | | |
| | their [1570, 1571] × their 0.0036 or [5.64, 5.66] | M1dep | oe dep on M4 | | |
| | 5.64 or 5.65 or 5.66 | Q1 | Strand (i) Must use correct money notation | | |
| 16 | Alternative method 4 | | | | |
| | 22 × 15 or 330 | M1 | Using total surface area M0 | | |
| | 3.96 ÷ their 330 or 0.012 or their 330 ÷ 3.96 or 83.3 | M1dep | oe | | |
| | π × 10 × 10 or [314, 314.2] | M1 | | | |
| | their [314, 314.2] × their 0.012 or their [314, 314.2] ÷ their 83.3 or [3.76, 3.771] | M1dep | oe dep on M3 | | |
| | their [3.76, 3.771] × 1.5(0) or [5.64, 5.66] | M1dep | oe dep on M4 | | |
| | 5.64 or 5.65 or 5.66 | Q1 | Strand (i) Must use correct money notation | | |

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| ų v | Answer | ivia i K | Comments |
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| | Alternative method 5 | | | | |
|----|--|-------|---|--|--|
| | 22 × 15 or 330 | M1 | Using total surface area M0 | | |
| | π × 10 × 10 or [314, 314.2] | M1 | | | |
| | their [314, 314.2] ÷ their 330 or 0.95 or their 330 ÷ their [314, 314.2] or [1.05, 1.051] | M1dep | dep on M2 | | |
| | their 0.95 × 3.96 M1dep or 3.96 ÷ their [1.05, 1.051] M1dep or [3.76, 3.771] M1dep | | oe dep on M3 | | |
| | their [3.76, 3.771] × 1.5(0) or [5.64, 5.66] | M1dep | oe dep on M4 | | |
| | 5.64 or 5.65 or 5.66 | Q1 | Strand (i) Must use correct money notation | | |
| 16 | Alternative method 6 | | | | |
| | 22 × 15 or 330 | M1 | Using total surface area M0 | | |
| | 3.96 ÷ their 330 or 0.012 | M1dep | oe | | |
| | their 0.012 × 1.5(0) or 0.018 | M1dep | oe dep on M2 | | |
| | $\pi \times 10 \times 10$ or 100π or [314, 314.2] | M1 | | | |
| | their [314, 314.2] × their 0.018 or [5.64, 5.66] | M1dep | oe dep on M4 | | |
| | 5.64 or 5.65 or 5.66 | Q1 | Strand (i) Must use correct money notation | | |
| | Additional Guidance | | | | |
| | Must consistently use volumes or consistently use base areas | | | | |
| | For all method marks, may work in pence | | | | |

| Q | Answer | Mark | Comments | | |
|----|--|------|--|--|--|
| 17 | Two correct trials [8.55, 8.65] which bracket 780 and 8.6 as final answer | B4 | B3 As B4 response but 8.6 not the final answer or two correct trials [8.5, 8.6] which bracket 780 and 8.6 as final answer B2 Two correct trials [8.1, 9] B1 One correct trial [8.1, 9] | | |
| | Additional Guidance | | | | |
| | Ignore incorrect trials | | | | |

Additional Guidance continues on the next page

| | Q | Answer | Mark | Comments |
|---|---|--------|------|----------|
| 1 | | | | |

| | Many 'correct' trials are shown | n in the table | | | | | |
|---|---------------------------------|----------------|-------------------|--|--|--|--|
| | | Trial | Acceptable values | | | | |
| | | 8.1 | [662, 663] | | | | |
| | | 8.2 | [685, 686] | | | | |
| | | 8.3 | [709, 710] | | | | |
| | | 8.4 | [733, 734] | | | | |
| | | 8.5 | [758, 759] | | | | |
| | | 8.55 | [771, 771.2314] | | | | |
| | | 8.56 | [773, 774] | | | | |
| | | 8.57 | [776, 776.313] | | | | |
| , | | 8.58 | [778,779] | | | | |
| | | 8.59 | [781, 781.42] | | | | |
| | | 8.6 | [783, 784] | | | | |
| | | 8.61 | [786, 787] | | | | |
| | | 8.62 | [789, 789.113] | | | | |
| | | 8.63 | [791, 792] | | | | |
| | | 8.64 | [794, 794.3] | | | | |
| | | 8.65 | [796, 797] | | | | |
| | | 8.7 | [809, 810] | | | | |
| | | 8.8 | [836, 836.4] | | | | |
| | | 8.9 | [863, 863.4] | | | | |
| | | 9 | 891 | | | | |

| | Q | Answer | Mark | Comments |
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|--|---|--------|------|----------|

| | Any multiple of 60 | M1 | eg 60 or 120 or 180 Accept in a list of multiples |
|----|--|-------|--|
| 18 | (Number of packs of patties =) their multiple ÷ 15 or 8 or (Number of packs of bread rolls =) their multiple ÷ 20 or 6 | M1dep | Implied by £65.92 or £19.5(0) |
| | 85.42 | A1 | SC2 Any multiple of 42.71 apart from 85.42 eg 42.71 or 128.13 or 170.84 or 213.55 |