



# Cambridge International AS & A Level

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**MATHEMATICS**

**9709/53**

Paper 5 Probability & Statistics 1

**October/November 2021**

**MARK SCHEME**

Maximum Mark: 50

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| <p><b>Published</b></p> |
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This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

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This document consists of **13** printed pages.

**PUBLISHED****Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

**GENERIC MARKING PRINCIPLE 1:**

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

**GENERIC MARKING PRINCIPLE 2:**

Marks awarded are always **whole marks** (not half marks, or other fractions).

**GENERIC MARKING PRINCIPLE 3:**

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

**GENERIC MARKING PRINCIPLE 4:**

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

**GENERIC MARKING PRINCIPLE 5:**

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

**GENERIC MARKING PRINCIPLE 6:**

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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| Mathematics Specific Marking Principles |                                                                                                                                                                                                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                       | Unless a particular method has been specified in the question, full marks may be awarded for any correct method. However, if a calculation is required then no marks will be awarded for a scale drawing.                                     |
| 2                                       | Unless specified in the question, answers may be given as fractions, decimals or in standard form. Ignore superfluous zeros, provided that the degree of accuracy is not affected.                                                            |
| 3                                       | Allow alternative conventions for notation if used consistently throughout the paper, e.g. commas being used as decimal points.                                                                                                               |
| 4                                       | Unless otherwise indicated, marks once gained cannot subsequently be lost, e.g. wrong working following a correct form of answer is ignored (isw).                                                                                            |
| 5                                       | Where a candidate has misread a number in the question and used that value consistently throughout, provided that number does not alter the difficulty or the method required, award all marks earned and deduct just 1 mark for the misread. |
| 6                                       | Recovery within working is allowed, e.g. a notation error in the working where the following line of working makes the candidate's intent clear.                                                                                              |

**Mark Scheme Notes**

The following notes are intended to aid interpretation of mark schemes in general, but individual mark schemes may include marks awarded for specific reasons outside the scope of these notes.

**Types of mark**

- M** Method mark, awarded for a valid method applied to the problem. Method marks are not lost for numerical errors, algebraic slips or errors in units. However, it is not usually sufficient for a candidate just to indicate an intention of using some method or just to quote a formula; the formula or idea must be applied to the specific problem in hand, e.g. by substituting the relevant quantities into the formula. Correct application of a formula without the formula being quoted obviously earns the M mark and in some cases an M mark can be implied from a correct answer.
- A** Accuracy mark, awarded for a correct answer or intermediate step correctly obtained. Accuracy marks cannot be given unless the associated method mark is earned (or implied).
- B** Mark for a correct result or statement independent of method marks.
- DM or DB** When a part of a question has two or more ‘method’ steps, the M marks are generally independent unless the scheme specifically says otherwise; and similarly, when there are several B marks allocated. The notation DM or DB is used to indicate that a particular M or B mark is dependent on an earlier M or B (asterisked) mark in the scheme. When two or more steps are run together by the candidate, the earlier marks are implied and full credit is given.
- FT** Implies that the A or B mark indicated is allowed for work correctly following on from previously incorrect results. Otherwise, A or B marks are given for correct work only.
- A or B marks are given for correct work only (not for results obtained from incorrect working) unless follow through is allowed (see abbreviation FT above).
  - For a numerical answer, allow the A or B mark if the answer is correct to 3 significant figures or would be correct to 3 significant figures if rounded (1 decimal place for angles in degrees).
  - The total number of marks available for each question is shown at the bottom of the Marks column.
  - Wrong or missing units in an answer should not result in loss of marks unless the guidance indicates otherwise.
  - Square brackets [ ] around text or numbers show extra information not needed for the mark to be awarded.

**Abbreviations**

|        |                                                                                                                                                                                       |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AEF/OE | Any Equivalent Form (of answer is equally acceptable) / Or Equivalent                                                                                                                 |
| AG     | Answer Given on the question paper (so extra checking is needed to ensure that the detailed working leading to the result is valid)                                                   |
| CAO    | Correct Answer Only (emphasising that no ‘follow through’ from a previous error is allowed)                                                                                           |
| CWO    | Correct Working Only                                                                                                                                                                  |
| ISW    | Ignore Subsequent Working                                                                                                                                                             |
| SOI    | Seen Or Implied                                                                                                                                                                       |
| SC     | Special Case (detailing the mark to be given for a specific wrong solution, or a case where some standard marking practice is to be varied in the light of a particular circumstance) |
| WWW    | Without Wrong Working                                                                                                                                                                 |
| AWRT   | Answer Which Rounds To                                                                                                                                                                |

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| Question | Answer               | Marks     | Guidance                                                                                                                     |
|----------|----------------------|-----------|------------------------------------------------------------------------------------------------------------------------------|
| 1        | $^{23}\text{C}_{17}$ | <b>M1</b> | $^{23}\text{C}_x$ or $^y\text{C}_{17}$ or $^z\text{C}_6$ , $x$ , $y$ or $z$ are integers no $+$ , $-$ , $\times$ or $\div$ . |
|          | 100947               | <b>A1</b> | CAO                                                                                                                          |
|          |                      | <b>2</b>  |                                                                                                                              |

| Question                                                | Answer             |   |   |   |   |           |   |   |   |   | Marks     | Guidance                                                                                                                  |                                                                                                 |
|---------------------------------------------------------|--------------------|---|---|---|---|-----------|---|---|---|---|-----------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 2(a)                                                    | Lakeview           |   |   |   |   | Riverside |   |   |   |   | <b>B1</b> | Correct stem, ignore extra values.                                                                                        |                                                                                                 |
|                                                         | 9                  | 4 | 0 | 1 | 8 | 8         |   |   |   |   | <b>B1</b> | Correct Lakeview labelled on left, leaves in order from right to left and lined up vertically, no commas.                 |                                                                                                 |
|                                                         | 8                  | 7 | 6 | 2 | 2 | 0         | 1 | 3 | 4 | 5 | 5         | <b>B1</b>                                                                                                                 | Correct Riverside labelled on same diagram, leaves in order and lined up vertically, no commas. |
|                                                         | 3                  | 2 | 0 | 3 | 0 | 6         | 7 |   |   |   | <b>B1</b> | Correct key for their diagram, need both teams identified and ‘m’ stated at least once here or in leaf headings or title. |                                                                                                 |
|                                                         |                    |   | 1 | 4 |   |           |   |   |   |   |           | <b>SC</b> If 2 separate diagrams drawn: <b>SC B1</b> if both keys meet these criteria.                                    |                                                                                                 |
| Key: 6 2 3 means 26m for Lakeview and 23m for Riverside |                    |   |   |   |   |           |   |   |   |   |           |                                                                                                                           |                                                                                                 |
|                                                         |                    |   |   |   |   |           |   |   |   |   | <b>4</b>  |                                                                                                                           |                                                                                                 |
| 2(b)                                                    | UQ = 32, LQ = 19   |   |   |   |   |           |   |   |   |   | <b>M1</b> | (30 ≤ UQ ≤ 33) – (14 ≤ LQ ≤ 22)                                                                                           |                                                                                                 |
|                                                         | IQR = 32 – 19 = 13 |   |   |   |   |           |   |   |   |   | <b>A1</b> | WWW                                                                                                                       |                                                                                                 |
|                                                         |                    |   |   |   |   |           |   |   |   |   | <b>2</b>  |                                                                                                                           |                                                                                                 |

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| Question | Answer                                                                                     | Marks     | Guidance                                                                                                                                                                                                           |
|----------|--------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3(a)     | Cw: 5    5    10    10    20                                                               | <b>M1</b> | At least 4 frequency densities calculated ( $f/cw$ ), accept unsimplified and class widths $\pm 1$ of true values. May be implied by graph.                                                                        |
|          | Fd: 4.6    20.4    13.5    7.6    1.2                                                      | <b>A1</b> | All heights correct on graph <b>NOT FT</b>                                                                                                                                                                         |
|          |                                                                                            | <b>B1</b> | Bar ends at 0, 5, 10, 20, 30, 50 clear intention not to draw at 4.5 or 5.5 etc.                                                                                                                                    |
|          |                                                                                            | <b>B1</b> | Axes labelled: Frequency density (fd), time (t) and mins (or appropriate title). Linear scales between 0 and 20.4 or above on vertical axis, and 0 and 50 or above on the horizontal axis. (Axes may be reversed.) |
|          |                                                                                            | <b>4</b>  |                                                                                                                                                                                                                    |
| 3(b)     | $\frac{2.5 \times 23 + 7.5 \times 102 + 15 \times 135 + 25 \times 76 + 40 \times 24}{360}$ | <b>M1</b> | Uses at least 4 midpoint attempts (e.g. $2.5 \pm 0.5$ ) in correct formula, accept unsimplified expression, denominator either correct or <i>their</i> $\Sigma$ frequencies .                                      |
|          | $\left[ \frac{5707.5}{360} = \right] 15.9, 15\frac{41}{48}$                                | <b>A1</b> | Evaluated.                                                                                                                                                                                                         |
|          |                                                                                            | <b>2</b>  |                                                                                                                                                                                                                    |

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| Question | Answer                                                                    | Marks       | Guidance                                                                                                                                           |
|----------|---------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 4(a)     | $P(X > 43.2) = P\left(Z > \frac{43.2 - 41.2}{3.6}\right) = P(Z > 0.5556)$ | <b>M1</b>   | Use of $\pm$ Standardisation formula once, allow continuity correction, not $\sigma^2$ , $\sqrt{\sigma}$ .                                         |
|          | $1 - \Phi(0.5556) = 1 - 0.7108$                                           | <b>M1</b>   | Appropriate area $\Phi$ , from final process, must be probability.                                                                                 |
|          | 0.289                                                                     | <b>A1</b>   | AWRT                                                                                                                                               |
|          |                                                                           | <b>3</b>    |                                                                                                                                                    |
| 4(b)     | Probability = $1 - \text{their (a)} = 1 - 0.2892 = 0.7108$                | <b>B1FT</b> | $1 - \text{their (a)}$ or correct.                                                                                                                 |
|          | $0.7108 \times 365 = 259.4$<br>259, 260                                   | <b>B1FT</b> | FT <i>their</i> 4SF (or better) probability, final answer must be positive integer.                                                                |
|          |                                                                           | <b>2</b>    |                                                                                                                                                    |
| 4(c)     | $z = \pm 1.645$                                                           | <b>B1</b>   | CAO, critical $z$ value.                                                                                                                           |
|          | $\frac{t - 41.2}{3.6} = -1.645$                                           | <b>M1</b>   | Use of $\pm$ standardisation formula with $\mu$ , $\sigma$ equated to a $z$ -value, no continuity correction, allow $\sigma^2$ , $\sqrt{\sigma}$ . |
|          | $t = 35.3$                                                                | <b>A1</b>   |                                                                                                                                                    |
|          |                                                                           | <b>3</b>    |                                                                                                                                                    |

| Question | Answer                                                                              | Marks     | Guidance                                                         |
|----------|-------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------|
| 5(a)     | ${}^5P_2 \times {}^7P_4$ <b>or</b> $5 \times 4 \times 7 \times 6 \times 5 \times 4$ | <b>M1</b> | ${}^5P_x \times {}^7P_y$ , $1 \leq x \leq 4$ , $1 \leq y \leq 6$ |
|          | 16 800                                                                              | <b>A1</b> |                                                                  |
|          |                                                                                     | <b>2</b>  |                                                                  |

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| Question | Answer                                                                                                                                                                                                                                                                                                       | Marks     | Guidance                                                                        |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------|
| 5(b)     | <b>Method 1</b> [Identify scenarios]                                                                                                                                                                                                                                                                         |           |                                                                                 |
|          | With A and no 5: $8 \times {}^6P_4$ or $(1 \times 4 \times 6 \times 5 \times 4 \times 3) \times 2$ or $4C1 \times 2! \times 6P4 = 2880$                                                                                                                                                                      | <b>M1</b> | One number of ways correct, accept unsimplified.                                |
|          | With 5 and no A: ${}^4P_2 \times 4 \times {}^6P_3$ or $(4 \times 3 \times 1 \times 6 \times 5 \times 4) \times 4$ or $4P2 \times 6C3 \times 4! = 5760$                                                                                                                                                       | <b>M1</b> | Add 2 or 3 identified correct scenarios only, accept unsimplified.              |
|          | With A and 5: $8 \times 4 \times {}^6P_3$ or $(4 \times 1 \times 1 \times 6 \times 5 \times 4) \times 8$ or $4C1 \times 2! \times 6C3 \times 4! = 3840$                                                                                                                                                      |           |                                                                                 |
|          | [Total =] 12 480                                                                                                                                                                                                                                                                                             | <b>A1</b> | CAO                                                                             |
|          | <b>Method 2</b> [total number of codes – number of codes with no A or 5]                                                                                                                                                                                                                                     |           |                                                                                 |
|          | No A or 5 : $(4 \times 3) \times (6 \times 5 \times 4 \times 3) = 4320$                                                                                                                                                                                                                                      | <b>M1</b> | ${}^4P_2 \times {}^6P_4$ or ${}^4C_2 \times {}^6C_4$ seen, accept unsimplified. |
|          | Required number = <i>their (a)</i> – <i>their</i> 4320                                                                                                                                                                                                                                                       | <b>M1</b> | <i>Their 5(a)</i> (or correct) – <i>their</i> (No A or 5) value.                |
|          | 12 480                                                                                                                                                                                                                                                                                                       | <b>A1</b> |                                                                                 |
|          | <b>Method 3</b> [subtracting double counting]                                                                                                                                                                                                                                                                |           |                                                                                 |
|          | With A ${}^4P_1 \times {}^7P_4 \times 2$ or ${}^4C_1 \times 2 \times {}^7C_4 \times 4! = 6720$<br>With 5 ${}^5P_2 \times {}^6P_3 \times 4$ or ${}^5C_2 \times 2 \times {}^6C_3 \times 4! = 9600$<br>With A and 5 = ${}^4P_1 \times {}^6P_3 \times 8$ or $4C1 \times 2! \times 6C3 \times 4! \times 8 = 3840$ | <b>M1</b> | One outcome correct, accept unsimplified.                                       |
|          | Required number = $6720 + 9600 - 3840$                                                                                                                                                                                                                                                                       | <b>M1</b> | Adding ‘with a’ to ‘with 5’ and subtracting ‘A and 5’.                          |
|          | 12 480                                                                                                                                                                                                                                                                                                       | <b>A1</b> | CAO                                                                             |
|          |                                                                                                                                                                                                                                                                                                              | <b>3</b>  |                                                                                 |

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| Question | Answer                                                                                                                                                                                          | Marks     | Guidance                                                                                             |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------|
| 5(c)     | <b>Method 1</b> – number of successful codes divided by total                                                                                                                                   |           |                                                                                                      |
|          | $(1 \times) 3 \times {}^5P_2$                                                                                                                                                                   | <b>M1</b> | $3 \times {}^5P_n, n = 2, 3$ . Condone $3 \times {}^5C_2$ , no + or –.                               |
|          | Probability = $\frac{\text{their } 3 \times 5P2}{\text{their } 16\,800}$                                                                                                                        | <b>M1</b> | Probability = $\frac{\text{their } 60}{\text{their } 16\,800}$ .                                     |
|          | $\frac{1}{280}, 0.00357$                                                                                                                                                                        | <b>A1</b> |                                                                                                      |
|          | <b>Method 2</b> – product of probabilities of each part of code                                                                                                                                 |           |                                                                                                      |
|          | $\frac{1}{5} \times \frac{1}{4} \times \frac{1}{7} \times \frac{3}{6} \left( \times \frac{5}{5} \times \frac{4}{4} \right)$ or $\frac{1}{5} \times \frac{1}{4} \times \frac{3 \times 5P2}{7P4}$ | <b>M1</b> | $\frac{1}{5} \times \frac{1}{4} \times k$ where $0 < k < 1$ for considering letters.                 |
|          |                                                                                                                                                                                                 | <b>M1</b> | $t \times \frac{1}{7} \times \frac{3}{6}$ or $t \times \frac{3 \times 5P2}{7P4}$ where $0 < t < 1$ . |
|          | $\frac{1}{280}$                                                                                                                                                                                 | <b>A1</b> | CAO                                                                                                  |
|          |                                                                                                                                                                                                 | <b>3</b>  |                                                                                                      |

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| Question | Answer                                                                                                     | Marks       | Guidance                                                                                                                                                             |
|----------|------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6(a)     | $p + q + 0.65 = 1$                                                                                         | <b>B1</b>   | Sum of probabilities = 1.                                                                                                                                            |
|          | $p + 2q + 0.15 = 0.55$                                                                                     | <b>B1</b>   | Use given information.                                                                                                                                               |
|          | Solve 2 linear equations                                                                                   | <b>M1</b>   | Either a single expression with one variable eliminated formed or two expressions with both variables on the same side seen with at least one variable value stated. |
|          | $p = 0.3, \frac{3}{10}, q = 0.05, \frac{1}{20}$                                                            | <b>A1</b>   | CAO, both WWW<br>If <b>M0</b> with correct answers <b>SC B1</b> .                                                                                                    |
|          |                                                                                                            | <b>4</b>    |                                                                                                                                                                      |
| 6(b)     | $\text{Var}(X) = \text{their } 0.3 + 4 \times \text{their } 0.05 + 9 \times 0.05 - 0.55^2$                 | <b>M1</b>   | Appropriate variance formula including $(E(X))^2$ , accept unsimplified.                                                                                             |
|          | $0.6475 \left[ \frac{259}{400} \right]$                                                                    | <b>A1</b>   | CAO (must be exact).                                                                                                                                                 |
|          |                                                                                                            | <b>2</b>    |                                                                                                                                                                      |
| 6(c)     | $1 - P(0, 1, 2) = 1 - ({}^{12}C_0 0.3^0 0.7^{12} + {}^{12}C_1 0.3^1 0.7^{11} + {}^{12}C_2 0.3^2 0.7^{10})$ | <b>M1</b>   | One correct term: ${}^{12}C_x p^x (1 - p)^{12-x}$ for $0 < x < 12$ , $0 < p < 1$ .                                                                                   |
|          | $1 - (0.01384 + 0.07118 + 0.16779)$                                                                        | <b>A1FT</b> | Correct unsimplified expression, or better in final answer. Unsimplified expression must be seen to <b>FT</b> <i>their p</i> from <b>6(a)</b> or correct.            |
|          | 0.747                                                                                                      | <b>A1</b>   |                                                                                                                                                                      |
|          |                                                                                                            | <b>3</b>    |                                                                                                                                                                      |
| 6(d)     | $(0.95)^8 \times 0.05 = 0.0332$ or $0.95^8 - 0.95^9 = 0.0332$                                              | <b>B1</b>   | Evaluated.                                                                                                                                                           |
|          |                                                                                                            | <b>1</b>    |                                                                                                                                                                      |

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| Question | Answer                                                                                      | Marks     | Guidance                                              |
|----------|---------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------|
| 7(a)     | Probabilities: $\frac{x+1}{x+10}$ , $\frac{9}{x+10}$ , $\frac{x}{x+10}$ , $\frac{10}{x+10}$ | <b>B1</b> | One probability correct in correct position.          |
|          |                                                                                             | <b>B1</b> | Another probability correct in correct position.      |
|          |                                                                                             | <b>B1</b> | Other two probabilities correct in correct positions. |
|          |                                                                                             | <b>3</b>  |                                                       |
| 7(b)     | $\frac{4}{10} \times \text{their } \frac{10}{x+10}$                                         | <b>M1</b> | Method consistent with <i>their</i> tree diagram.     |
|          | $\frac{4}{x+10}$                                                                            | <b>A1</b> | AG                                                    |
|          |                                                                                             | <b>2</b>  |                                                       |

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| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                    | Marks        | Guidance                                                                                                                            |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 7(c)     | $\frac{4}{x+10} = \frac{1}{6}$ $x+10=24, \quad x=14$                                                                                                                                                                                                                                                                                                                                                      | <b>B1</b>    | Find value of $x$ . Can be implied by correct probabilities in calculation.                                                         |
|          | $P(\text{ARed} \text{BRed}) = P(\text{ARed} \cap \text{BRed}) \div P(\text{BRed})$ $\frac{\frac{6}{10} \times \text{their} \frac{x+1}{x+10}}{\frac{6}{10} \times \text{their} \frac{x+1}{x+10} + \frac{4}{10} \times \text{their} \frac{x}{x+10}} = \frac{\frac{6}{10} \times \frac{15}{24}}{\frac{6}{10} \times \frac{15}{24} + \frac{4}{10} \times \frac{14}{24}} = \frac{\frac{3}{8}}{\frac{73}{120}}$ | <b>B1 FT</b> | $\frac{6}{10} \times \text{their} \frac{x+1}{x+10}$ as numerator or denominator of fraction.                                        |
|          |                                                                                                                                                                                                                                                                                                                                                                                                           | <b>M1</b>    | $\frac{6}{10} \times \text{their} \frac{x+1}{x+10} + \frac{4}{10} \times \text{their} \frac{x}{x+10}$ seen anywhere.                |
|          |                                                                                                                                                                                                                                                                                                                                                                                                           | <b>A1 FT</b> | Seen as denominator of fraction.                                                                                                    |
|          | $\frac{45}{73}, 0.616[4\dots]$                                                                                                                                                                                                                                                                                                                                                                            | <b>A1</b>    | If B0 M0:<br><b>SC B1</b> for $\frac{\frac{3}{8}}{\frac{73}{120}}$ or $\frac{0.375}{0.6083}$ <b>SC B1</b> $\frac{45}{73}$ or 0.616. |
|          |                                                                                                                                                                                                                                                                                                                                                                                                           | <b>5</b>     |                                                                                                                                     |