CAMBRIDGE
International Education

# Cambridge IGCSE™

**CAMBRIDGE INTERNATIONAL MATHEMATICS** **0607/21**

Paper 2 (Extended) **May/June 2026**

MARK SCHEME

Maximum Mark: 75

**Published**

This mark scheme contains the instructions and marking guidance that our examiners used to mark candidate responses for this component.

Before they start marking, examiners complete a standardisation process. They review a range of candidate responses and discuss the mark scheme in detail to agree which answers can and cannot be accepted. Examiners award marks where it is clear that candidate responses have met the requirements of the mark scheme. These requirements may vary between different components or different versions of the same component, depending on the exact requirements of the question and the candidate responses seen during the standardisation process.

Sometimes, our mark schemes may allow marks to be awarded to responses which contain elements that are factually incorrect or for content not covered by the syllabus. We do this in response to the demands of a specific question to support candidates and make sure that our assessments are fair. However, these allowances should not be used as a guide for teaching and learning.

We cannot discuss the mark scheme with schools, and we recommend that schools read the mark scheme together with the assessment material and the Principal Examiner Report for Teachers.



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**General marking principles**

All examiners must apply these marking principles when marking candidate responses.

| | |
|---|---|
| 1 | Examiners must award marks for each response in line with:<br><br>• the specific **content** defined in the mark scheme<br>• the specific **skills** defined in the mark scheme or in the level descriptions<br>• the **standard of response** required as exemplified by the standardisation scripts. |
| 2 | Examiners must award **whole marks** (not half marks, or other fractions). |
| 3 | Examiners must award marks **positively**. This means that:<br><br>• marks are not deducted for errors or omissions<br>• marks are awarded for correct/valid answers as defined in the mark scheme and also for **other valid answers** which go beyond the scope of the syllabus and mark scheme referring to your team leader as appropriate<br>• the quality of spelling, punctuation and grammar are judged **only** when the mark scheme indicates that these features are **specifically assessed** in the question. However, the meaning of all responses must be unambiguous. |
| 4 | Examiners must **consistently** apply the requirements of the mark scheme and any rules for what to do when candidates have not followed instructions correctly. |
| 5 | Examiners must use the **full range of marks** defined in the mark scheme, unless limited by the quality of the candidate responses seen. |
| 6 | Examiners must award marks according to the mark scheme and **must not** award marks with grade thresholds or grade descriptions 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, non-integer 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 or sign 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 A or B 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.

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**Annotations guidance for centres**

Examiners use a system of annotations as a shorthand for communicating their marking decisions to one another. Examiners are trained during the standardisation process on how and when to use annotations. The purpose of annotations is to inform the standardisation and monitoring processes and guide the supervising examiners when they are checking the work of examiners within their team. The meaning of annotations and how they are used is specific to each component and is understood by all examiners who mark the component.

We publish annotations in our mark schemes to help centres understand the annotations they may see on copies of scripts. Note that there may not be a direct correlation between the number of annotations on a script and the mark awarded. Similarly, the use of an annotation may not be an indication of the quality of the response.

The annotations listed below were available to examiners marking this component in this series.

**Annotations**

| Annotation | Meaning |
|---|---|
| ^ | More information required |
| A0 | Accuracy mark awarded zero |
| A1 | Accuracy mark awarded one |
| A2 | Accuracy mark awarded two |
| A3 | Accuracy mark awarded three |
| B0 | Independent mark awarded zero |
| B1 | Independent mark awarded one |
| B2 | Independent mark awarded two |
| B3 | Independent mark awarded three |
| BOD | Benefit of the doubt |

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| Annotation | Meaning |
|---|---|
| C | Communication mark |
|  | Incorrect |
| FT | Follow through |
| Highlighter | Highlight a key point in the working |
| ISW | Ignore subsequent work |
| M0 | Method mark awarded zero |
| M1 | Method mark awarded one |
| M2 | Method mark awarded two |
| M3 | Method mark awarded three |
| MR | Misread |
| O | Omission |
| Off-page comment | Allows comments to be entered at the bottom of the RM marking window and then displayed when the associated question item is navigated to. |
| On-page comment | Allows comments to be entered in speech bubbles on the candidate response. |
| Pre | Premature rounding/approximation |
| SC | Special case |
| SEEN | Indicates that work/page has been seen |

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| Annotation | Meaning |
|---|---|
| TE | Transcription error |
| ✓ | Correct |
| XP | Correct answer from incorrect working |

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## 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 marks, awarded for a valid method applied to the problem.

A Accuracy mark, awarded for a correct answer or intermediate step correctly obtained. For accuracy marks to be given, the associated Method mark must be earned or implied.

B Mark for a correct result or statement independent of Method marks.

When a part of a question has two or more 'method' steps, the M marks are in principle independent unless the scheme specifically says otherwise; and similarly where there are several B marks allocated. The notation 'dep' is used to indicate that a particular M or B mark is dependent on an earlier mark in the scheme.

### Abbreviations

| | |
|---|---|
| awrt | answers which round to |
| cao | correct answer only |
| dep | dependent |
| FT | follow through after error |
| isw | ignore subsequent working |
| nfww | not from wrong working |
| oe | or equivalent |
| rot | rounded or truncated |
| SC | Special Case |
| soi | seen or implied |

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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 1 | $4\frac{3}{7}$ cao | **1** | | |
| 2 | $\frac{30}{100}$ oe final answer | **1** | | e.g. $\frac{3}{10}$ , $\frac{6}{20}$ , $\frac{15}{50}$ |
| 3 | 14 | **1** | | Allow ± 14 or –14 |
| 4 | 5 | **2** | **M1** for $4 = 2W - 3 \times 2$ or better<br>or $W = \frac{H + 3X}{2}$ | |
| 5 | $\begin{pmatrix} 4 \\ 0 \end{pmatrix}$ | **2** | **B1** for answer $\begin{pmatrix} 4 \\ k \end{pmatrix}$ or $\begin{pmatrix} k \\ 0 \end{pmatrix}$<br>or **M1** for $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$ seen<br>If 0 scored **SC1** for $\begin{pmatrix} 4 \\ 0 \end{pmatrix}$ | **Do not allow** fraction lines in vectors for the **B1** or **M1** mark.<br>e.g. **M1** for $\begin{pmatrix} 3+1 \\ -2+2 \end{pmatrix}$ |
| 6 | 144 | **2** | **M1** for $\frac{360}{10}$ soi or $\frac{(10-2)\times 180}{10}$ oe | Alternative method<br>$\frac{(2\times 10-4)\times 90}{10}$ |
| 7(a)(i) | <table><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>H</td><td>H1</td><td>H2</td><td>H3</td><td>H4</td></tr><tr><td>T</td><td>T1</td><td>T2</td><td>T3</td><td>T4</td></tr></table> | **1** | | |

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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 7(a)(ii) | $\frac{2}{8}$ oe | **2** | **M1** for working that would lead to $\frac{2}{8}$ oe<br><br>or for $\frac{k}{8}$ or $\frac{2}{n}$ as final answer<br><br>or $\frac{k}{8}$ or $\frac{2}{n}$ seen and then cancelled down to give their final answer<br><br>$k$ is a positive integer $1 \leqslant k \leqslant 7$, $k \neq 2$<br>$n$ is a positive integer $3 \leqslant n \leqslant 14$, $n \neq 8$ | In all parts ISW attempts to cancel or change form after correct answer seen.<br>Only accept fraction, percentage and decimal equivalents (3 sf or better).<br>Do not accept ratio, e.g. not 2 to 8. |
| 7(b) | $\frac{64}{125}$ oe | **2** | **M1** for $\left(1-\frac{1}{5}\right)^3$ oe | 0.512 or 51.2% scores 2 marks |
| 7(c) | $\frac{18}{42}$ oe | **3** | **M2** for $\frac{4}{7}\times\frac{3}{6}+\frac{3}{7}\times\frac{2}{6}$ oe<br>or **M1** for $\frac{4}{7}\times\frac{3}{6}$ or $\frac{3}{7}\times\frac{2}{6}$ or better<br><br>OR<br><br>**M2** for $1-\left(\frac{4}{7}\times\frac{3}{6}+\frac{3}{7}\times\frac{4}{6}\right)$ oe<br>or **M1** for $\frac{4}{7}\times\frac{3}{6}$ or $\frac{3}{7}\times\frac{4}{6}$ or better<br><br>If 0 scored **SC1** for answer $\frac{25}{49}$ | **M1** accept either part multiplied by something else or as part of a longer product<br>Accept $\frac{12}{42}$ or $\frac{6}{42}$ for **M1**<br><br>**M1** possibly implied by $\frac{2}{7}$ or $\frac{1}{7}$ |

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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 8 | [gradient] $\frac{1}{4}$ oe<br><br>[$y$ – intercept] 3 | **3** | **B2** for one correct<br>or **M1** for rearrangement to $4y = x + 12$ or better<br><br>If 0 scored, **SC1** for gradient $\frac{x}{4}$<br>or for $y$-intercept (0, 3) | e.g. 0.25 |
| 9 | $8 - 2x - x^2$ final answer | **2** | **B1** for $8 - 4x + 2x - x^2$ with at least three terms correct | $-2x$ is two terms |
| 10(a) | $\frac{11}{2}$ or 5.5 | **3** | **M1** for correct first step<br>e.g. $10n - 15 = 40$ or $2n - 3 = 8$<br><br>**M1FT** for a correct second step<br>e.g. $10n = 40 + 15$ or $2n = 8 + 3$ | $\frac{55}{10}$ then 5.5 on answer line scores 3<br>5.5 then $\frac{55}{10}$ on answer line scores 2<br><br>**FT** is from $ax + b = c$ to $ax = d$ |
| 10(b) | $x = 4$<br>$y = 2$ | **3** | **M1** for correct method to eliminate one variable<br>**A1** for $x = 4$<br>**A1** for $y = 2$<br><br>If **M0** or **M1A0** scored, **SC1** for two non-zero values satisfying one of the original equations | Allow one **arithmetic** error in elimination method.<br>**M1** for $11kx = 44k$ or $11my = 22m$<br><br>If using substitution method **M1**, no errors allowed.<br>e.g. **M1** for $5(8 - 2y) - y = 18$ oe<br>or $x + 2(5x - 18) = 8$ oe |

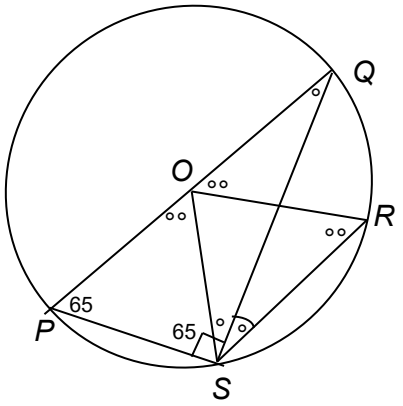
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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 10(c) | $n > 9$ final answer | **2** | **M1** for $17 + 10 < 5n - 2n$ oe or better | $9 < n$ scores 2 marks<br>$n \geqslant 10$ scores 0 unless **M1** seen.<br><br>Allow for **M1** $17 + 10 * 5n - 2n$<br>or $n * 9$<br>where $*$ is $<$, $\leqslant$, $=$, $\geqslant$ |
| 11 | $3\pi + 12$ or $3(\pi + 4)$ final answer | **2** | **M1** for $\frac{1}{4} \times 2 \times \pi \times 6$ [$+k$] oe | $3\pi + 12 = 15\pi$ scores **M1** only<br><br>$k$ is a numerical value and does not contain $\pi$. |
| 12 | Translation<br><br>$\begin{pmatrix} 2 \\ 0 \end{pmatrix}$ | **2** | **B1** for each | More than one transformation scores 0.<br>Extra properties count as choice.<br>But allow translate and e.g. move, as this is ONE transformation.<br><br>Do not accept a fraction line in the vector.<br><br>Accept the vector in words<br>e.g. 2 units to the right<br>e.g. 2 parallel to the $x$-axis in the positive $x$-direction<br><br>do not accept<br>e.g. 2 units parallel to the $x$-axis (as no direction given)<br><br>If vector is given as vector **and** in words, both must be correct. |

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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 13(a) | 103°<br><br>opposite angles in a cyclic quadrilateral add to 180° | **2** | **B1** for each | **opp**osite **angles** in a **cyclic quad**rilateral **add** to **180°**<br><br>accept quad for quadrilateral<br>accept cyclical for cyclic<br>accept total, sum for add.<br>accept supplementary for add to 180<br>allow unambiguous spelling e.g. siclic.<br><br>do not accept 'make together'<br>do not accept e.g. $A + C = 180$ unless with complete geometrical reason<br>do not accept e.g. quadrilateral **in a circle** |
| 13(b) | 80 | **3** | Considering diagram:<br>**B2** for angle of 80 correct at *SOR* seen on diagram<br>or **B2** for angle of 50 identified correctly for :<br>*POS, ROQ, OSR* or *ORS* with no errors for these four angles.<br>or **B1** for any correct angle identified | 1 dot 25° 2 dots 50°<br>Possible angles are<br>*PQS* = 25, *OSQ* = 25,<br>*POS* = 50, *ROQ* = 50, *OSR* = 50,<br>*ORS* = 50,<br>*OSP* = 65, *OPS* = 65,<br>*PSQ* = 90. (allow right angle symbol)<br><br> |



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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 14 | $\frac{1}{9}$ | **2** | **B1** for $9^{-1}$ or $\frac{1}{3^2}$ or $3^{-2}$ or $\frac{1}{27^{\frac{2}{3}}}$ or $729^{-\frac{1}{3}}$ or $\sqrt[3]{\frac{1}{729}}$ seen | ISW any decimal conversion |
| 15(a) | $2.04\times10^4$ | **1** | | ignore trailing zeros |
| 15(b) | $4.51\times10^{16}$ | **2** | **B1** for figs 451<br>or **M1** for $42\times10^{15}$ and $3.1\times10^{15}$<br>or $4.2\times10^{16}$ and $0.31\times10^{16}$ soi | ignore trailing zeros |
| 16 | $7\sqrt{3}$ final answer | **3** | **B2** for two of $5\sqrt{3}$, $4\sqrt{3}$, $2\sqrt{3}$ correct<br>or **B1** for one correct | Note $4\sqrt{3}-2\sqrt{3}=2\sqrt{3}$ scores **B2** |
| 17 | $8x^2y^4$ final answer | **2** | **B1** for two correct terms $kx^2y^4$ or $8x^ky^4$ or $8x^2y^k$ in final answer | $y^k$ may be written as eg $y^2y^3$ for **B1** similar for $k$ and $x$<br>Note: $2^3x^2y^4$ scores **B1** |
| 18 | 3 | **1** | | |
| 19 | 4 | **2** | **M1** for $3^{12-n}=3^{2n}$ or $3^{12}=3^{2n+n}$ seen or implied | e.g. $12=3n$ or $12-n=2n$<br>Do not allow any misreads |
| 20(a) | $4\sqrt{10}$ or $\sqrt{160}$ final answer | **3** | **M2** for $(-4-8)^2+(3--1)^2$ or $(8--4)^2+(-1-3)^2$ oe soi by $(-12)^2+4^2$<br>or **M1** for $(-1-3)$ or $(3--1)$ or $(8--4)$ or $(-4-8)$ | Do NOT condone omission of brackets (unless recovered).<br>160 implies **M2**<br>144 implies **M1**<br>12 or –12 or 16 may imply **M1** but not if from wrong working (recovery from poor brackets is not wrong working) |

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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 20(b) | $y = 3x - 5$ final answer | **5** | **B1** for (2, 1) soi<br><br>**M1** for gradient $= \frac{3 - -1}{-4 - 8}$ oe<br><br>**M1** for perpendicular gradient $= -\frac{1}{their\ \left(-\frac{1}{3}\right)} = m$<br><br>**M1** for correct substitution soi (*their* 1) = (*their m*) × (*their* 2) + *c* oe | Accept e.g. $\frac{12}{4}$ for 3<br><br>Allow 2, 1, $x = 2, y = 1$, $\frac{2}{1}$ for 2<br><br>$= -\frac{1}{3}$<br><br>Possibly implied by $m = 3$<br>*their* $-\frac{1}{3}$ is not *their* length from part **(a)**<br><br>*their* midpoint is not $(-4, 3)$ or $(8, -1)$<br>*their m* is not gradient of *AB* |

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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 21(a) | $\frac{-5x^2+17x+2}{(x-3)(x+1)}$ or $\frac{-5x^2+17x+2}{x^2-2x-3}$ final answer | 3 | **M1** for $2(x+1)-5x(x-3)$ oe or better<br>**B1** for correct denominator ISW | $\frac{2(x+1)-5x(x-3)}{(x+1)(x-3)}$ scores **M1B1**<br><br>$\frac{2(x+1)}{(x+1)(x-3)}-\frac{5x(x-3)}{(x+1)(x-3)}$ scores **M1B1**<br><br>$\frac{2(x+1)}{(x-3)}-\frac{5x(x-3)}{(x+1)}$ scores **M1B0**<br><br>$\frac{2x+2-5x^2-15x}{(x-3)(x+1)}$ scores **M0B1**, if no previous correct working earlier<br>$\frac{2}{x-3}\times x+1-\frac{5x}{x+1}\times x-3$ scores 0 unless recovered<br><br>$\frac{2}{x-3}\times(x+1)-\frac{5x}{x+1}\times(x-3)$ scores **M1B0** |
| 21(b) | $\frac{2x+3}{x+4}$ final answer | 4 | **B1** for $(2x-3)(2x+3)$ seen<br><br>**B2** for $(2x-3)(x+4)$ seen<br>or **M1** for $(2x+a)(x+b)$<br>where $ab = -12$ or $2b+a=5$ | |
| 22 | 120 and 240 cao | 3 | **B2** for 120 or 240<br>or **B1** for 60<br>or **M1** for $\cos w = -\frac{1}{2}$<br>if 0 scored,<br>**SC1** for two angles with sum of 360 | Do not allow 60 within a list or table unless clearly identified.<br><br>not multiples of 90 |

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| Question | Answer | Marks | Partial Marks | Guidance |
|---|---|---|---|---|
| 23 | $(13x)^2-(5x)^2$ | **M2** | **M1** for $(13x)^2=(5x)^2+h^2$ | Attempt at Pythagoras<br>Accept other letters for $h$<br>If brackets are missing, can score **M1**, but does not score **M2** unless recovered by further working.<br><br>**M2** for 12 as from 5,12,13<br><br>**M2** for $169x^2-25x^2$<br>or for $144x^2$<br>or for $13^2-5^2$ or 144<br>**M1** for $(13x)^2+(5x)^2$<br>or for $13x^2=5x^2+h^2$<br>or for $13x^2+5x^2$ |
| | $12x$ | **A1** | | $12x$ scores **M2A1** as a known Pythagorean triple |
| | $\frac{1}{3}\pi\times(5x)^2\times their(12x)=\frac{4}{3}\pi r^3$ | **M1** | *their* $12x$ is dependent on scoring earlier at least **M1** | The two expressions must be seen in full and equated for the **M1** mark.<br>Accept $\frac{1}{3}\pi\times25x^2\times12x=\frac{4}{3}\pi r^3$<br>Missing brackets can be recovered, but then **A0**<br>$100x^3$ without prior steps does not imply LHS.<br>Could be done in stages. |
| | Correct work leading to $r^3=75x^3$ | **A1** | | Must be convinced, with at least one line of intermediate working, and no errors seen (after the first three marks) as answer given.<br>Condone $\pi$ as 3.14, 3.142 or $\frac{22}{7}$ for **M1**, but only scores **A1** if correctly cancelled. |

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