

Cambridge IGCSE™

CAMBRIDGE INTE	0607/11	
Paper 1 (Core)		May/June 2024
MARK SCHEME		
Maximum Mark: 40		
	Published	

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 May/June 2024 series for most Cambridge IGCSE, Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

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 descriptions 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.

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.
- 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).
- 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.
- 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 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 not from wrong working

oe or equivalent

rot rounded or truncated

SC Special Case soi seen or implied

Question	Answer	Marks	Partial marks
1	12 and 60 only	1	
2	9	1	
3(a)	or	1	
3(b)	Clear indictation of acute angle	1	
4(a)	(2.2, 1.4)	1	
4(b)	(1.2, 1) correctly plotted	1	
5		2	M1 for first stage correct from correct start or second stage correct for <i>their</i> first stage from correct start or for correct 2-stage path but from wrong start or for a distance west followed by a distance south from correct start.
6(a)	19	2	M1 for correctly ordering first or last 6 numbers i.e. 10, 12, 13, 15, 18, 19, or, 19, 21, 24, 27, 32, 36
6(b)	26	1	
7	0.36	1	
8	-1	1	
9	1:250 000	2	M1 for conversion to consistent units seen e.g. 250 000 [cm] or 500 000 [cm] or 0.000 02 [km] or 0.02 [m] and 5000 [m]
10	3f - 5g final answer	2	B1 for $3f$ or $-5g$ in final answer or for $3f - 5g$ seen then spolit
11	3 (h) 25 (min) oe	2	B1 for one of the following seen oe, 3h 35min (i.e first or 0500 ferry) 3h 55min (i.e second or 1005 ferry) 3h 50min (i.e fourth or 2000 ferry) or for 3 h 25 min but not as answer or the 15 35 ferry indicated
12	25	1	

Question	Answer	Marks	Partial marks
13	$3x^2 - x^3$ final answer	2	B1 for $3x^2$ or $-x^3$ in final answer or for $3x^2 - x^3$ seen then spolit
14	5(3q+7) final answer	1	
15	96 nfww	3	M2 for $\frac{4\times6}{2}\times8$ oe
			or M1 for $\frac{4 \times 6}{2}$ or M1 for <i>their</i> area of triangle \times 8
			If zero scored, SC1 for answer 192
16	$\frac{3}{7}$ cao	2	B1 for numerator 12 seen or denominator 28 seen
17	$M \cup C$	1	
18	4y - 20 or $4(y - 5)$ final answer	2	M1 for correct first step, e.g. $4y = x + 20$ or $y - 5 = \frac{x}{4}$
19	15, 16, 18, 20	1	
20	-5n + 50 oe final answer	2	B1 for answer $-5n + k$ or $jn + 50$ $(j \neq 0)$ or for $-5n + 50$ oe seen then spoilt
21	40	2	M1 for 60 × 10 ÷ 15 or for 60 ÷ 15 or 10 ÷ 15 oe Alternative method B1 for finding a correct pair of intermediate values e.g. 5km in 20 min or 7.5km in 30 min or 2.5km in 10 min or 30km in 120 min or 30km in 2h[our]
22	y = 5x - 2 oe	2	B1 for answer $5x - 2$ or $y = 5x + -2$ or $y = 5x + p$ oe, $p \ne 1$ or $y = qx - 2$ oe, $q \ne 0$
23	5	2	B1 for scale factor of 2 soi or M1 or for $AD \div 10$ [=]10 \div 20 oe