



# Cambridge IGCSE™ (9–1)

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**MATHEMATICS**

**0980/01**

Paper 1 Non-calculator (Core)

**For examination from 2025**

MARK SCHEME B

Maximum Mark: 80

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**Specimen**

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This document has **10** pages. Any blank pages are indicated.

**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 descriptions for the question
- the specific skills defined in the mark scheme or in the generic level descriptions 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 descriptions.

**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 descriptions 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.
- 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 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.

**MARK SCHEME NOTES**

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

Anything in the mark scheme which is in square brackets [...] is not required for the mark to be earned, but if present it must be correct.

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.

**Types of mark**

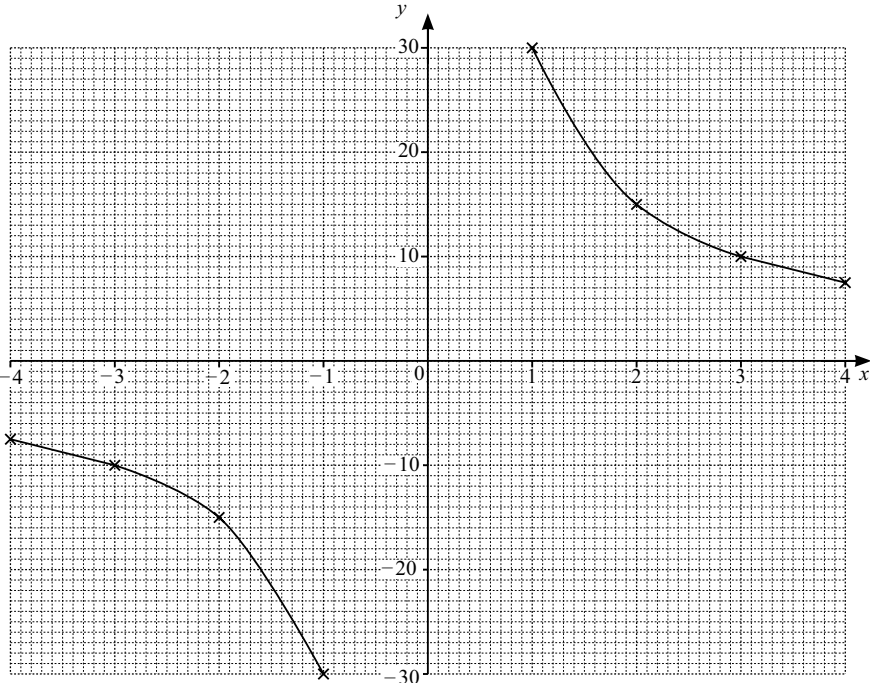
- M** Method mark, awarded for a valid method applied to the problem.
- A** Accuracy mark, given for a correct answer or intermediate step correctly obtained. For accuracy marks to be given, the associated Method mark must be earned or implied.
- B** Mark for a correct result or statement independent of Method marks.

**Abbreviations**

awrt	answers which round to
cao	correct answer only
dep	dependent on the previous mark(s)
FT	follow through after error
isw	ignore subsequent working (after correct answer obtained)
nfw	not from wrong working
oe	or equivalent
SC	special case
soi	seen or implied

Question	Answer	Marks	Partial Marks
1(a)	120	1	
1(b)	25	1	
1(c)	4	1	
1(d)	23	1	
2	2	2	<b>M1</b> for $\frac{1}{0.5}$ or $\frac{1}{\frac{1}{2}}$ oe
3	42	2	<b>M1</b> for $100 - (36 + 22)$ oe
4	Correct reflection in line $L$	1	
5	3, 4, 7, 13, 13 in any order	3	<b>B2</b> for five values with 3 out of 4 conditions satisfied or <b>B1</b> for five values with 2 out of 4 conditions satisfied Conditions are: The median is 7 The mode is 13 The range is 10 They add up to 40
6(a)	50 000	1	
6(b)	72.580 cao	1	
6(c)	268.8 cao	1	
7	9	2	<b>M1</b> for $2 \times 12 - 3 \times 5$ oe

Question	Answer	Marks	Partial Marks																					
8(a)(i)	<table border="1"> <thead> <tr> <th>Number of books</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>    </td> <td>5</td> </tr> <tr> <td>1</td> <td> </td> <td>1</td> </tr> <tr> <td>2</td> <td>    </td> <td>4</td> </tr> <tr> <td>3</td> <td>   </td> <td>3</td> </tr> <tr> <td>4</td> <td>  </td> <td>2</td> </tr> <tr> <td>5</td> <td> </td> <td>1</td> </tr> </tbody> </table>	Number of books	Tally	Frequency	0		5	1		1	2		4	3		3	4		2	5		1	3	<b>B2</b> for all the frequencies correct or for 4 rows correct  <b>B1</b> for all the tallies correct but frequencies missing or for 3 rows correct
Number of books	Tally	Frequency																						
0		5																						
1		1																						
2		4																						
3		3																						
4		2																						
5		1																						
8(a)(ii)	Correct bar chart (with consistent gaps between equal width bars)	2	<b>FT</b> <i>their</i> table <b>B1FT</b> for correct bar chart with one height incorrect or all heights correct but with inconsistent widths or gaps																					
8(b)(i)	2.6 oe	3	<b>M1</b> for $1 \times 8 + 2 \times 2 + 3 \times 4 + 4 \times 2 + 5 \times 4$ soi by 52 <b>M1</b> dep on previous <b>M1</b> for <i>their</i> $52 \div 20$																					
8(b)(ii)	The mode is 1 because 1 has the highest frequency or the mode is the number of magazines with the highest frequency oe	1																						
9(a)	0.6	1																						
9(b)	30 000	1																						
10		1																						
11	30 and 5 seen and final answer 200	2	<b>B1</b> for 30 and 5 seen or 180 and 20 seen If 0 scored, <b>SC1</b> for final answer of 200																					
12	-13	1																						
13(a)	0.2 or $\frac{1}{5}$	1																						
13(b)	64	2	<b>B1</b> for $[\sqrt{16} =] 4$ soi																					

Question	Answer	Marks	Partial Marks
14(a)	100 AND Corresponding angles are equal	2	<b>B1</b> for 100
14(b)	80 AND Co-interior angles sum to 180 or opposite angles of a parallelogram are equal and angles in a quadrilateral (parallelogram) add to 360	2	<b>B1</b> for 80
14(c)	120	2	<b>M1</b> for $y + 2y + z = 360$ soi
15(a)	-10, -15, -30, 30, 15, 10	3	<b>B2</b> for 4 or 5 correct or <b>B1</b> for 2 or 3 correct
15(b)	Correct graph 	4	<b>B3FT</b> for 7 or 6 correct plots or <b>B2FT</b> for 5 or 4 correct plots or <b>B1FT</b> for 3 correct plots

Question	Answer	Marks	Partial Marks
15(c)	2	1	
15(d)(i)	Ruled line $y = 25$ drawn	1	
15(d)(ii)	1.15 to 1.25	1	FT <i>their</i> graph
16	6	2	M1 for $\frac{h}{2}(8 + 12) = 60$ oe
17(a)	Correct ruled net	3	B1 for each extra correct face in the correct place
17(b)	36	3	M2 for $\frac{1}{2} \times 4 \times 3 \times 6$ oe or M1 for $\frac{1}{2} \times 4 \times 3$ oe
	cm <sup>3</sup>	1	
18(a)	$\frac{17}{35}$ or equivalent fraction	2	M1 for an attempt to convert fractions to a common denominator with one numerator correct e.g. $\frac{14}{35}$ and $\frac{k}{35}$ or $\frac{m}{35}$ and $\frac{20}{35}$ or $\frac{28}{70}$ and $\frac{x}{70}$ oe
18(b)	$2\frac{4}{15}$ cao	3	B2 for correct but unsimplified answer, e.g. $\frac{34}{15}$ or M2 for converting fractions to a common denominator e.g. $\frac{55}{15}$ and $\frac{21}{15}$ , $2\frac{10}{15}$ and $\frac{6}{15}$ , $3\frac{10}{15}$ and $1\frac{6}{15}$ or M1 for $\frac{11}{3}$ and $\frac{7}{5}$ or for $3 - 1 + \frac{2}{3} - \frac{2}{5}$ oe
19	$2.8 \times 10^5$	2	B1 for $28 \times 10^4$ oe
20	10	3	M2 for $56\pi - \pi \times 4^2 = 4\pi l$ oe or M1 for $\pi \times 4^2$ oe or $56\pi - \text{their} (\pi \times 4^2)$ If 0 scored, SC1 for answer 14
21	$y^2 - y - 30$ final answer	2	B1 for 3 terms correct from $y^2 - 6y + 5y - 30$
22(a)	9	1	



Question	Answer	Marks	Partial Marks
22(b)	$4x^{12}y$ final answer	2	<b>B1</b> for $4x^{12}y^c$ or $4x^c y$ or $kx^{12}y$ or correct answer seen
23	2	2	<b>M1</b> for $\frac{8}{x} = \frac{12}{3}$ oe or better
24	$3x + x + 6 + 2x + 1 + 2x - 1 = 26$ or better	<b>M1</b>	soi by $8x + 6 = 26$
	2.5 or $2\frac{1}{2}$ or $\frac{5}{2}$ cao	<b>B2</b>	<b>M1</b> for $ax = b$ FT <i>their</i> equation

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