

圈匃 Cambridge Assessment

## 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
$\stackrel{0}{\sim}$ 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.

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

## Abbreviations

cao correct answer only
dep dependent
FT follow through after error
isw ignore subsequent working
nfww not from wrong working
oe or equivalent
SC special case
soi seen or implied

| Question | Answer | Marks | Partial Marks |
| :---: | :---: | :---: | :---: |
| 1(a)(i) | 1104 | 1 |  |
| 1(a)(ii) | 1150 | 1 | FT |
| 1(a)(iii) | 38 | 1 |  |
| 1(b) | 4.5 | 1 |  |
| 1(c)(i) | 2.2 | 2 | B1 for 11 or 2200 seen |
| 1(c)(ii) | $150^{\circ}$ | 1 |  |
| 1(c)(iii) | Correct position | 2 | B1 for bearing $195^{\circ}$ <br> B1 for distance 2.5 cm |
| 1(c)(iv) | 3770 or 3769.9 to 3770.4 | 4 | B2 for diameter 1200 [metres] soi or B1 for diameter $6[\mathrm{~cm}]$ soi M1 for $\pi \times$ their diameter soi |


| Question | Answer | Marks | Partial Marks |
| :---: | :---: | :---: | :---: |
| 2(a)(i) | 21 or 28 | 1 |  |
| 2(a)(ii) | 16 or 81 | 1 |  |
| 2(a)(iii) | 27 | 1 |  |
| 2(a)(iv) | 17 or 61 or 67 or 71 | 1 |  |
| 2(b) | $7 \times(5-2+3)=42$ | 1 |  |
| 2(c)(i) | $2^{2} \times 3 \times 5$ or $2 \times 2 \times 3 \times 5$ | 2 | B1 for prime factors 2, 3 and 5 (and no others) identified or a correct product e.g. $6 \times 10,4 \times 15$, $5 \times 12,4 \times 3 \times 5$ etc. |
| 2(c)(ii) | 180 | 2 | M1 for $2 \times 2 \times 3 \times 3$ or $2^{2} \times 3^{2}$ or B1 for any other multiple of 180 or for listing at least 5 multiples of each with maximum one error |
| 2(d) | $0.9 \text { or } \frac{9}{10}$ | 1 |  |



| Question |  | Answer | Marks | Partial Marks |
| :---: | :---: | :---: | :---: | :---: |
| 4(a)(i) | 9:4 |  | 1 |  |
| 4(a)(ii) | 7 |  | 2 | M1 for $\frac{3}{5} \times 45$ or $45: 3 \times 9$ |
| 4(b)(i) | 4745 cao |  | 3 | B2 for 4744.9... <br> or M1 for $\left(1+\frac{4}{100}\right)^{6}$ |
| 4(b)(ii) | 37 |  | 2 | M1FT for their $\frac{4745}{126}$ |
|  | 83 |  | 2 | M1FT for their $4745-126 \times$ their 37 or $\left(\right.$ their $\frac{4745}{126}-$ their 37$) \times 126$ |
| 4(c) | 17.28 |  | 1 |  |



| Question | Answer | Marks | Partial Marks |
| :---: | :---: | :---: | :---: |
| 6(a)(i) | 8 | 1 |  |
| 6(a)(ii) | -2 | 3 | M1 for first step correctly identified M1FT for second step correctly identified |
| 6(b)(i) | $19 x+117$ | 2 | B1 for $19 x+c$ or $m x+117$ |
| 6(b)(ii) | $15 x+625=$ their $(\mathbf{b})(\mathbf{i})$ | 1 |  |
|  | 127 | 2 | M1FT for first step of their linear equation |




