



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

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CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/01

Paper 1 (Core)

For Examination from 2010

SPECIMEN MARK SCHEME

45 minutes

MAXIMUM MARK: 40

This document consists of **3** printed pages and **1** blank page.



TYPES OF MARK

- **M** marks are given for a correct method.
- **A** marks are given for an accurate answer following a correct method.
- **B** marks are given for a correct statement or step.
- **D** marks are given for clear and appropriately accurate drawing.
- **P** marks are given for accurate plotting of points.
- **E** marks are given for correctly explaining or establishing a given result.
- **C** marks are given for clear communication (Papers 5 and 6 only).
- **R** marks are given for appropriate reasoning (Papers 5 and 6 only).

ABBREVIATIONS

- ft Follow through
- oe Or equivalent
- soi Seen or implied
- www Without wrong working

| | | | |
|----|--------------------------------|------|-------------------------------------|
| 1 | 11 | B1 | |
| 2 | 85 | B1 | |
| 3 | -9 | B1 | |
| 4 | 50 | B1 | |
| 5 | 0.04 | B1 | |
| 6 | (a) $\sqrt{3}$ | B1 | |
| | (b) 11 | B1 | |
| | (c) 8 | B1 | |
| 7 | $\frac{6}{15} - \frac{1}{15}$ | M1 | |
| | $\frac{5}{15}$ | M1 | |
| | $\frac{1}{3}$ | A1 | |
| | | | |
| 8 | $\frac{3 \times 3 + 5}{5}$ | M1 | |
| | 2.8 | A1 | |
| 9 | $3a(5 - c)$ | B2 | B1 for $3(5a - ac)$ or $a(15 - 3c)$ |
| 10 | $3n - 6 = 2 - 3n$ | M1 | or better |
| | $3n + 3n = 2 + 6$ | A1 | |
| | $\frac{4}{3}$ oe | A1 | |
| 11 | (a) $\frac{1}{5}$ | B1 | |
| | (b) $2q^4$ | B1B1 | |
| 12 | (a) (i) -1 to 2 | B1 | |
| | (ii) 0 to 2 | B1 | |
| | (b) Graph drawn 1 unit to left | B1 | |
| 13 | $2m + 3n = 13$ | M1 | If fully correct, by any method, B3 |
| | $9m - 3n = 9$ oe | A1 | |
| | $m = 2, n = 3$ | A1 | |

| | | | |
|-------------------|---|----------|---|
| 14 (a) | $\begin{pmatrix} 6 \\ -4 \end{pmatrix}$ | B1 B1 | |
| (b) | $(-1, 1)$ | B1 | |
| 15 (a) (i) | 3, 4, 5, 9 | B1 | |
| (ii) | 2, 6, 7, 8 | B1 | |
| (iii) | 5, 9 | B1 | |
| (b) (i) | \subset | B1 | |
| (ii) | \cup | B1 | |
| 16 (a) | 4 | B1 | |
| (b) | $\frac{1}{2}$ | B1 | |
| (c) | 4 | B1 | |
| (d) | $y = \frac{1}{2}x + 1$ | B2 | dependent on $y =$, then B1 for $\frac{1}{2}$ or B1 for 1 (max 1) |