



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**

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**MAXIMUM MARK: 40**

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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   |                                     |
|    |                                | A1   |                                     |

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