

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/13

Paper 1 (Core), maximum raw mark 40

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Abbreviations

| | |
|-----|----------------------------|
| cao | correct answer only |
| dep | dependent |
| FT | follow through after error |
| isw | ignore subsequent working |
| oe | or equivalent |
| SC | Special Case |
| nfw | not from wrong working |
| soi | seen or implied |

| | | | |
|---------------|--|----------------------|---|
| 1 (a) | 45 000 | 1 | |
| (b) | Two thousand one hundred [and] thirty six | 1 | |
| 2 | 23 | 1 | |
| 3 | 0.25, 30%, $\frac{6}{10}$ or $\frac{3}{5}$ | 3 | B1 for each value in correct place in table |
| 4 (a) | 9 | 1 | Ignore signs |
| (b) | 5 | 1 | |
| 5 | 4100 or 4.1×10^3 | 1 | |
| 6 | Rectangle, rhombus or parallelogram | 2 | B2 for any two and no incorrect solutions or B1 for one correct |
| 7 | 20 and 15 | 2 | M1 for $35 \div (3 + 4)$ |
| 8 | 7 | 2 | M1 for 40 or 4×10 seen |
| 9 | $\frac{3}{10}$ | 2 | M1 for $\frac{7}{10} - \frac{4}{10}$ |
| 10 | $8x^2 - 12x$ | 2 | B1 for $8x^2$ or $-12x$ |
| 11 | $[x=] 3$ $[y=] 1$ | 1 1 | If 0 scored SC1 for correct substitution and evaluation to find the other variable If no working shown, SC1 for 2 correct answers given. |
| 12 (a) | 110 Corresponding | 1 1 | |
| (b) | 90 Angle [in a] semi-circle | 1 1 | |

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| | | | |
|--------|--|-------------|---|
| 13 | $\frac{2}{6}$ oe | 1 | |
| 14 | 5 | 2 | M1 for $\frac{x}{12.5} = \frac{2}{5}$ or $\frac{12.5}{x} = \frac{5}{2}$ or 2.5 seen |
| 15 (a) | 13 | 1 | |
| (b) | 0 | 1 | |
| 16 (a) | Translation $\begin{pmatrix} 1 \\ -6 \end{pmatrix}$ | 1 1 | accept equivalent in words |
| (b) | Enlargement [SF]3 [Centre] (0, 0) or origin | 1 1 1 | |
| 17 (a) | 21 | 1 | |
| (b) | 13 | 2 | B1 for 28 and 15 seen |
| (c) | 6 | 2 | B1 for 94 or M1 for $100 - (their\ 94)$ |