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

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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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
nfww	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%, $\dfrac{6}{10}$ or $\dfrac{3}{5}$	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		$\dfrac{3}{10}$	2	**M1** for $\dfrac{7}{10} - \dfrac{4}{10}$
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\n\nIf no working shown, **SC1** for 2 correct answers given.
12	**(a)**	110 Corresponding	1 1	
	(b)	90 Angle [in a] semi-circle	1 1	

13		$\dfrac{2}{6}$ oe	1	
14		5	2	**M1** for $\dfrac{x}{12.5} = \dfrac{2}{5}$ or $\dfrac{12.5}{x} = \dfrac{5}{2}$ 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)