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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2015 series for most Cambridge IGCSE®, Cambridge International A and AS Level components and some Cambridge O Level components.

® IGCSE is the registered trademark of Cambridge International Examinations.

CAMBRIDGE
International Examinations

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%, $\frac{6}{10}$ 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**	

© Cambridge International Examinations 2015

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	**1**	
		$\begin{pmatrix} 1 \\ -6 \end{pmatrix}$	**1**	accept equivalent in words
	(b)	Enlargement	**1**	
		[SF]3	**1**	
		[Centre] (0, 0) or origin	**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)

© Cambridge International Examinations 2015