CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/11 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)	93	1	Accept 1h 33 min
	(b)	24	1	
	(c)	Bus 2	1	Accept 16 20
2		10	1	
3		Correct shading	2	-1 mark for each error or omission.
4		[x=] 65	1	Tolerance $\pm 2^{\circ}$ for each answer
		[y=] 230	1	
5	(a)	Cuboid		
	(b)	Hexagon		
	(c)	Parallelogram	5	B1 for each correct label.
	(d)	Kite		
	(e)	Trapezium		
6	(a)	4 ³	1	
	(b)	1	1	
7	(a)	(4, 5)	1	
	(b)	(3, 0)	1	
8	(a) (i)	1.8×10^5	1	
	(ii)	180 or 1.8×10^2	1	
	(b)	1×10^{-3}	1	

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9		$\begin{pmatrix} 5 \\ -1 \end{pmatrix}$	2	B1 for each component If 0 scored, SC1 for $\begin{pmatrix} -5 \\ 1 \end{pmatrix}$ or $\begin{pmatrix} -1 \\ 5 \end{pmatrix}$.
10	(a)	Positive	1	
	(b)	80	1	
11		6	2	M1 for $\frac{15}{5}$ or $\frac{5}{15}$ soi by \times 3 or \times $\frac{1}{3}$
12	(a)	12x - 15y or 3(4x - 5y) Final answer	2	M1 for $6x - 12y$ or $6x - 3y$ or B1 for $12x$ or $-15y$ in answer
	(b)	5pq (p+2q) Final answer	3	M2 for $pq (5p + 10q)$ or $5p (pq + 2q^2)$ or $5q (p^2 + 2pq)$
				or M1 for 5 $(p^2q + 2pq^2)$ or $p (5pq + 10q^2)$ or $q (5p^2 + 10pq)$
13		Correctly eliminating one variable	M1	
		$\begin{bmatrix} x =] 4 \\ [y =] 1$	A1 A1	If 0 scored, SC1 for correct substitution and evaluation to find the other variable.
				If no working shown, SC1 for 2 correct answers given.
14	(a)	7/15	1	
	(b)	[No] could be a multiple of 15 oe	1	
15	(a)	44	1	
	(b)	28	1	
	(c)	32	1 FT	FT 60 – <i>their</i> (b) provided 0 < <i>their</i> (b) < 60
	(d)	4	1	