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

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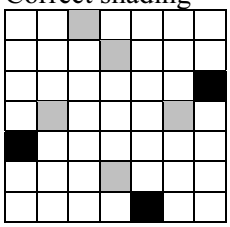
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Abbreviations

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 ± 2° 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 × 3 or × $\frac{1}{3}$
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 [x =] 4 [y =] 1	**M1** **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)**	$\frac{7}{15}$	**1**	
	(b)	[No] could be a multiple of 15 oe	**1**	
15	**(a)**	44	**1**	
	(b)	28	**1**	
	(c)	32	**1 FT**	**FT** 60 – *their* **(b)** provided 0 < *their* **(b)** < 60
	(d)	4	**1**	

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