CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2014 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12 Paper 1 (Core), maximum raw mark 40

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1	**(a)**	20 200	**1**	
	(b)	6	**1**	
	(c)	30	**1**	
2		5	**1**	
3	**(a)**	Correct bar drawn (height at 4)	**1**	
	(b)	2	**1**	
	(c)	14	**1**	
	(d)	16	**2**	**M1** 2×8
4		75 ± 2	**1**	
5	**(a)**	4	**1**	
	(b)	1	**1**	
	(c)	2.5	**2**	**B1** for ordered list seen with at least 7 numbers or 2 and 3 indicated as either side of median
6	**(a) (i)**	*BDE* or *CDE*	**1**	
	(ii)	*AED* or *CED*	**1**	
	(iii)	Similar Alternate angles are equal	**1** **1**	
	(b)	9	**2**	**M1** for scale factor of $\frac{3}{2}$ or $\frac{2}{3}$ seen or for $6 \times \frac{3}{2}$ or $6 \div \frac{2}{3}$
7		8π	**2**	**M1** for $2 \times 4 \times \pi$
8		Correct sketch	**2**	**M1** for line with general shape that either is correct on and above axis, or starts at (–2, 2), max at (0, 2) and ends at (2, –2) If zero, **SC1** for sketch of $f(x+2)$
9	**(a)**	750	**1**	
	(b)	7.5×10^2	**1FT**	**FT** *their* **(a)** if $a \times 10^k$ with a and k given, if *their* (a) < 1 or *their* (a) ≥ 10

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10	**(a)**	$2p(3q+1)$ final answer	**2**	**M1** for $2(3pq + p)$ or $p(6q + 2)$
	(b)	$\frac{2}{3}$ oe	**2**	**M1** for correct first step of $5x - 2x = 6 - 4$ oe or better
11	**(a)**	11	**1**	
	(b)	25	**1**	
	(c)	$\frac{4}{25}$ oe	**1FT**	**FT** *their* 25
	(d)	$\frac{14}{25}$ oe	**1FT**	**FT** *their* 25
12	**(a)**	[x=] 2, [y=] 1	**4**	**M1** for correct multiplication to equate two coefficients and **M1** for eliminating one variable and **A1** for each correct answer If zero scored, **SC1** for pair of values that satisfy one equation
	(b)	6	**2FT**	**M1** for adding *their x* and *their y* or 8 burgers + 8 drinks = 24

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