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CAMBRIDGE INTERNATIONAL MATHEMATICS **0607/11**

Paper 1 (Core) **October/November 2016**

MARK SCHEME

Maximum Mark: 40

Published

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Abbreviations

awrt answers which round to
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

Question	Answer	Mark	Part marks
1 (a)	(2, 5)	**1**	
(b)	Plot at (4, –2)	**1**	
2	40	**1**	
3	1, 5, 7, 35 cao	**2**	**B1** for 5 **and** 7 and no incorrect factors
4 (a)	**(**6 + 3**)** × 4 – 12 = 24	**1**	
(b)	6 + 3 × **(**4 – 12**)** = –18	**1**	
5	175	**1**	
6	500	**2**	**B1** for 50 **or** 2.5 seen
7 (a)	7200	**1**	
(b)	0.086	**1**	
8 (a)	80	**1**	
(b)	7	**2**	**M1** for 104 – 20 = 12*n* or better oe
9 (a)	2, 16	**1**	
(b)	2, 6	**1**	
10 (a)	$-3x + 6$ final answer	**1**	
(b)	$2x(3 - 5y)$ final answer	**2**	**M1** for $2(3x - 5xy)$ **or** $x(6 - 10y)$
11	[$y =$] $3x + 7$	**2**	**M1** for $3x + c$, $c \neq 1$ **or** for $mx + 7$, $m \neq 0$
12 (a)	Correct triangle (–4, 2), (–4, 4), (–5, 4)	**2**	**B1** for reflection in line $x = k$ or $y = -1$
(b)	Rotation	**1**	
	90° clockwise oe	**1**	
	[Centre] (0, 0) oe	**1**	

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Question	Answer	Mark	Part marks
13 (a)	Discrete	1	
	The data only takes on integer values oe	1 dep	Dependent on discrete
(b)	Median	1	
	There is one value which is much larger than the others oe	1 dep	Dependent on median
14	$\frac{5x}{6}$	2	**B1** for $\frac{3x}{6}$ **or** $\frac{2x}{6}$ **or** common denominator
15	Correct method to eliminate one variable	M1	Dependant on the coefficients being the same for one of the variables Correct consistent use of addition or subtraction
	[x =] 5	A1	
	[y =] 2	A1	If zero scored, **SC1** for correct substitution **and** evaluation to find other variable **or** for no working shown, but 2 correct answers
16 (a)	5 points correct	2	**B1** for 3 or 4 points correct
(b)	negative	1	
(c)	line with negative gradient passing through mean	1	

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