



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

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
nfw	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)	$(6 + 3) \times 4 - 12 = 24$	1	
(b)	$6 + 3 \times (4 - 12) = -18$	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 $104 - 20 = 12n$ 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 The data only takes on integer values oe	1 1 dep	Dependent on discrete
(b)	Median There is one value which is much larger than the others oe	1 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 [x =] 5 [y =] 2	M1 A1 A1	Dependant on the coefficients being the same for one of the variables Correct consistent use of addition or subtraction 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	