

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 correct answer only cao

dep dependent

follow through after error ignore subsequent working FΤ isw

or equivalent Special Case oe SC

not from wrong working seen or implied nfww

soi

Qu	estion	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 $3x + c$, $c \ne 1$ or for $mx + 7$, $m \ne 0$
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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Qu	estion	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	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	