

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12

Paper 1 (Core)

October/November 2016

MARK SCHEME
Maximum Mark: 40

Published

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Page 2	Mark Scheme		Paper
	Cambridge IGCSE – October/November 2016	0607	12

Abbreviations

answers which round to awrt correct answer only cao

dep dependent

follow through after error ignore subsequent working or equivalent Special Case FΤ isw

oe SC

not from wrong working seen or implied nfww

soi

C	Question	Answer	Mark	Part marks
				1 art marks
1	(a)	2, 3, 6	1	
	(b)	4 cao	1	
	(c)	2 or 3 or 5	1	
2		3 100	1	
3		13 20 or 1 20 pm	1	
4	(a)	4	1	
	(b)	32	1	
5	(a)	Tuesday	1	
	(b)	1000	1	
6		-10	1	
7	(a)	0.082	1	
	(b)	61 000	1	
8		-1, -6	2	B1 FT (their –1) – 5
9		80	1	
		24	1	
10		324	1	
11		$y = 3x + c , c \neq 5$	1	
12		36π	2	M1 for $6 \times 6 \times \pi$ oe
13		No [because] $25 \text{ m}^2 = 25 \times 10000 \text{ cm}^2 \text{ oe}$	1	Must say no to score;
14		9	2	M1 360 ÷ 40 oe

Page 3	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – October/November 2016	0607	12

Q	uestion	Answer	Mark	Part marks
15		60	2	B1 for 90° seen for angle ACB soi
16	(a) (i)	6	1	
	(ii)	$\frac{1}{27}$	1	
	(b)	3	1	
17	(a)	1, 3, 5, 7, 9	1	
	(b)	5 nfww	3	M1 for 'fx' seen as $(1 \times 1) + (3 \times 6)$ (FT their midpoints), at least 3 seen and M1 dep for their total for 'fx' / 20.
18	(a)	>	1	
	(b) (i)	_3	1	
	(ii)	5	1	
19		Translation	1	
		$\begin{pmatrix} 0 \\ -2 \end{pmatrix}$	1	
20	(a)	5 points correct	2	B1 for 3 or 4 points correct
	(b)	Positive	1	