



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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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, 3, 6	1	
(b)	4 cao	1	
(c)	2 or 3 or 5	1	
2	$\frac{3}{100}$	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 (<i>their</i> -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] $25 \text{ m}^2 = 25 \times 10\,000 \text{ cm}^2$ oe	1	Must say no to score;
14	9	2	M1 $360 \div 40$ oe

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Question	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 nfw	3	M1 for 'fx' seen as $(1 \times 1) + (3 \times 6) \dots$ (FT <i>their</i> midpoints), at least 3 seen and M1 dep for <i>their</i> total for 'fx' / 20.
18 (a)	>	1	
(b) (i)	-3	1	
(ii)	5	1	
19	Translation $\begin{pmatrix} 0 \\ -2 \end{pmatrix}$	1 1	
20 (a)	5 points correct	2	B1 for 3 or 4 points correct
(b)	Positive	1	