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Cambridge International Examinations Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12 October/November 2016

Paper 1 (Core) 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 m ² = 25 × 10 000 cm ² oe	1	Must say no to score;
14	9	2	M1 360 ÷ 40 oe

Mark Scheme Cambridge IGCSE – October/November 2016					<u>1 Paper</u> 12
Question				narks	
15	60	2	B1 for 90° seen for angle <i>ACB</i> 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 (1×1) (FT <i>their</i> midpoints), at le and M1 dep for <i>their</i> tota	east 3 seen	
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 correc	et	
(b)	Positive	1			