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** (*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] $25\ m^2 = 25 \times 10\,000\ cm^2$ oe	**1**	Must say no to score;
14	9	**2**	**M1** 360 ÷ 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 nfww	**3**	**M1** for 'f*x*' seen as (1 × 1) + (3 × 6) … (**FT** *their* midpoints), at least 3 seen **and M1 dep** for *their* total for 'f*x*' / 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**	

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