

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

## CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12 October/November 2016

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Paper 1 (Core) MARK SCHEME Maximum Mark: 40

Published

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Page 2	Mark Scheme	Syllabus	P. J. Mar
	Cambridge IGCSE – October/November 2016	0607	12 417,0 75
Abbrevi			-Cloud,
awrt	answers which round to		COM
cao	correct answer only		
dep	dependent		

## 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

seen or implied soi

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 <b>or</b> 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	<b>B1 FT</b> ( <i>their</i> –1) – 5
9	80	1	
	24	1	
10	324	1	
11	$y = 3x + c$ , $c \neq 5$	1	
12	36π	2	<b>M1</b> for $6 \times 6 \times \pi$ oe
13	No [because] 25 $m^2 = 25 \times 10000 \text{ cm}^2$ oe	1	Must say no to score;
14	9	2	<b>M1</b> 360 ÷ 40 oe

				Syllabus P.   Iovember 2016 0607 12   Part marks   B1 for 90° seen for angle ACB soi	
Ра	ige 3	Mark Scheme Cambridge IGCSE – October/November 2016		Syllabus PLUT 43	State Stat
		Cambridge IGUSE	E – October/N	lovember 2016 0607 12 13 0607	
Question		Answer	Mark	Part marks	d.com
15		60	2	<b>B1</b> 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 $(1 \times 1) + (3 \times 6) \dots$ (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	1		
		$\begin{pmatrix} 0\\ -2 \end{pmatrix}$	1		
20	(a)	5 points correct	2	B1 for 3 or 4 points correct	
	(b)	Positive	1		