

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/13

Paper 1 (Core)

October/November 2016

MARK SCHEME
Maximum Mark: 40

Published

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Page 2	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – October/November 2016	0607	13

Abbreviations

answers which round to awrt correct answer only cao

dep dependent

follow through after error ignore subsequent working FΤ isw

or equivalent Special Case oe SC

not from wrong working seen or implied nfww

soi

Q	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 × 10 000 cm ² 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	13

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	