



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/13

Paper 1 (Core)

May/June 2016

MARK SCHEME

Maximum Mark: 40

Published

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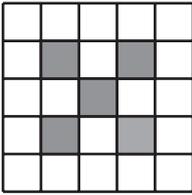
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Abbreviations

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)	8, 2, 6, 4	2	B1 for 3 correct frequencies
(b)	Complete correct bar chart including scale	3FT	FT <i>their</i> frequencies. B1 for correct linear scale B1 FT for 2 correct height
2	$\frac{2}{5}$ 42% 0.49	2	M1 for 2 correct in same form
3		1	
4	Rhombus Kite	1 1	
5	6	1	
6	24	2	M1 correct first step If 0 scored, SC1 for $24k$ on answer line
7 (a)	$\frac{45}{360}$ or equivalent fraction	2	B1 for 45 seen
(b)	24	2	M1 for equating 135 with 9 students
8	-1	2	M1 for $5 \times 3 - 3 \times 7$ or better
9 (a)	48	1	
(b)	30	2	M1 for angle PTO or $PSO = 90^\circ$ soi
10	25	3	B1 for two of 4, 2 and 0.5 M1 for correct evaluation of <i>their</i> $4 + 2 \times 0.5$

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Question	Answer	Mark	Part Marks
11	$90p + 85q$	2	B1 for $90p$ or $85q$ seen If 0 scored, SC1 for $0.9p + 0.85q$
12	$9\pi + 18$	2 1	M1 for $0.5 \times 18 \times \pi$ or equivalent forms
13	12	2	M1 for a correct first step e.g. $\frac{9}{6} = \frac{PR}{8}$ or [scale factor] $\frac{2}{3}$
14 (a) (b)	$f(x) - 1$ $-15 \leq f(x) \leq 6$	1 2	B1 for 6 and -15 stated, but not shown as a range or B1 for 1 correct inequality.
15 (a) (b) (c)	$\begin{array}{cc} 9 & 16 \\ 16 & 20 \end{array}$ 64 $4n + 4$ oe	2 1 2	B1 for 1 correct row or column. B1 for $4n + k$ or $jn + 4$ ($j \neq 0$)