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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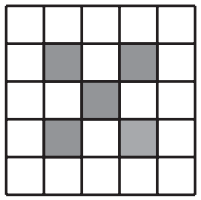
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Abbreviations

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** *their* 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 24*k* 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° soi
10	25	**3**	**B1** for two of 4, 2 and 0.5 **M1** for correct evaluation of *their* $4 + 2 \times 0.5$

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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	9π $+ 18$	**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)	$f(x) - 1$	**1**	
(b)	$-15 \leq f(x) \leq 6$	**2**	**B1** for 6 and –15 stated, but not shown as a range or **B1** for 1 correct inequality.
15 (a)	9 16 16 20	**2**	**B1** for 1 correct row or column.
(b)	64	**1**	
(c)	$4n + 4$ oe	**2**	**B1** for $4n + k$ or $jn + 4$ ($j \neq 0$)

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