



Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS Paper 1 (Core) MARK SCHEME Maximum Mark: 40 Published

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			18C/OUG
Abbrevia	tions		AD.
awrt	answers which round to		CON
cao	correct answer only		

Abbreviations

dep dependent

FTfollow through after error ignore subsequent working isw

or equivalent oe SCSpecial Case

not from wrong working nfww

seen or implied soi

Question	Answer	Marks	Part marks	
1	correct shading	1		
2	Sector only correctly drawn.	1	Do not allow diameter	
	Chord only correctly drawn.	1	Allow diameter	
3	1, 3, 7, 21 cao	2	B1 for 3 and 7 and no others or for 3 factors and no wrong numbers or for all 4 factors and one incorrect	
4 (a)	48	1		
(b)	14	1		
5	29	1		
6	30, 10	2	M1 for 40 ÷ 4 or better	
7	Rectangle, Rhombus	2	B1 for one correct and only one incorrect or for both correct and only one incorrect	
8	160	3	M2 for 2 (2 × 5 + 5 × 10 + 2 × 10) oe or M1 for areas of any two faces	
9	-2, -12	2	B1 for –2 as first term in answer	
			If zero scored, SC1 for reverse order	
10 (a) (i)	{1, 4, 9}	1		
(ii)	{2, 4, 6, 8}	1		
(iii)	{1, 9}	1		
(b)	Square [numbers]	1		
(c)	$7 \notin A$ $A \cap B' = \{4\}$	1		

			7, 2
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Question	Answer	Marks	Part marks
11	120	3	M2 for $180 \times 3 - (90 + 110 + 140 + 80)$ oe
			or B1 for 180×3 oe and M1 – $(90 + 110 + 140 + 80)$ oe
12	45	2	M1 for $\frac{100}{1000}$ or $\frac{8}{3600}$ oe
			If zero scored, SC1 for $\frac{100}{8}$
13	Translation	B1	
	$\begin{pmatrix} 0 \\ 3 \end{pmatrix}$	B1	Accept 3 up or 3 in positive <i>y</i> -direction
14	35	1	
15	-3, -2, -1, 0, 1	2	B1 for any 3 or 4 correct in the range –3 to 1 If zero scored, SC1 for –3, –2, –1, 0, 1, 2
16 (a) (i)	3(x+2) cao final answer	1	
(ii)	p(p+q) cao final answer	1	
(b)	21 - 5x cao final answer	2	M1 for $-6x + 21$ seen
17	Correct method to eliminate one variable	M1	Dependant on the coefficients being the same for one of the variables Correct consistent use of addition or
	[x=]4	A1	subtraction
	[y=]0	A1	
			If zero scored, SC1 for correct substitution and evaluation to find other variable, or if no working shown, but 2 correct answers