



Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/51

Paper 5 (Core) May/June 2016

MARK SCHEME
Maximum Mark: 24

Published

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Abbrevi	ations		Cloud
awrt cao	answers which round to correct answer only		COM

Abbreviations

dep dependent

FTfollow through after error iswignore subsequent working

or equivalent oe SCSpecial Case

not from wrong working nfww

seen or implied soi

Question		Answer	Mark	Part Marks
1	(a)	3	1	
	(b)	2	1	
	(c)	40	1	
	(d)	15	1	C opportunity
2	(a)	$\frac{9}{3}$ [=3] and $\frac{3}{1}$ [=3] oe seen	1	
	(b)	$\frac{3}{2}$ or 1.5 and $\frac{2}{1}$ or 2 oe and No oe	1	
	(c) (i)	147	1	C opportunity
	(ii)	21 by 150 or 150 by 21	1	FT their(i)
	(d) (i)	15	1	C opportunity
	(ii)	15 by 78 or 78 by 15	1	FT their(i)
3	(a) (i)	12	1	C opportunity
	(ii)	72.	1	C opportunity
	(iii)	36	1	FT $\frac{their(ii)}{2}$
	(iv)	n^2 oe	1	
	(b) (i)	3	1	C opportunity
	(ii)	6 by 20 or 20 by 6	1	C opportunity

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Question	Answer				Mark	Part Marks	
(c)	n	х	у	Z	Dimensions	3	3 for all 8 cells
	2	2	4	8	4 by 10		
	6	2	their 12	their 72	12* by 74*		*FT their y by (their $z + 2$)
	their 3	2	their 6	18	their y by 20		
	5	7	35	175	35* by 182*		* FT their y by (their $z + 7$)
	4	1	4	16	4 by 17		
	2	5	10	20	10* by 25		*FT their y by 25
							B2 for 6 or 7 cells correct or B1 for 4 or 5 cells correct
4 (a)	4 (a) nx [by] $n^2x + x$ oe (b) $nx:(n^2 + 1)x$ oe seen				2	B1 for each C opportunity	
(b)					1		
Communication seen in at least 3 of 1(d), 2(c)(i), 2(d)(i), 3(a)(i), 3(a)(ii), 3(b)(i), 3(b)(ii) or 4(a)					2	C1 if seen in 2 of these	