

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/52

[Turn over

Paper 5 (Core) May/June 2016

MARK SCHEME
Maximum Mark: 24



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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

Qu	estion		Answe	r		Mark	Part Marks
1	(a) (b)	An example and illustration of last – fir $\frac{\text{first+last}}{2} \text{ oe}$	st + 1			1	
2	(a)	Sequence		Median	Sum	5	B1 for first two rows
		3, 4, 5, 6, 7, 8, 9	7	6	42		B1 for each of the last four rows
		7, 8	2	7.5	15		C opportunity
		20, 21, 22,, 40	21	30	630		Copportunity
		5, 6, 7	3	6	18	Ц	
		2, 3, 4, 5, 6, 7, 8, 9	8	5.5	44		
		2, 3, 4, 5, 6, 7	6	4.5	27	Ц	
		5, 6, 7, 8, 9	5	7	35		
	(b)	multiply				1	
	(c)	odd [number]				1	
	(d)	ends in .5 oe				1	
3		Sequence		Median	Sum	5	1st row: B1
		4, 5, 6	3	5	15		2nd row: B1 for sequence B1 for median
		7, 8, 9, 10	4	8.5	34		
		4, 5, 6, 7, 8, 9, 10	7	7	40		3rd row: B1 for sequence B1 for median
		or 24, 25	or 2	or 24.5	49		

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Question	Answer	Mark	Part Marks
4	485 500	2	B1 500 or 971 seen
			C opportunity
5	38, 39	3	B1 for each sequence
	8, 9, 10, 11, 12, 13, 14		or B1 for 2 × 38.5
	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12		B1 for 7 × 11 or 11 × 7
6 (a)	1, 2, 4, 8, 16 oe	1	
	median not an integer when even number of terms oe	1	
(b)	32 or 64 or 128, etc	1	
Communication seen in one of 2(a), 3, 4, 5 or 6(b)		1	