

## **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

## **CAMBRIDGE INTERNATIONAL MATHEMATICS**

0607/52

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		5	B1 for first two rows B1 for each of the last
		3, 4, 5, 6, 7, 8, 9       7, 8	2	7.5	15		four rows  C opportunity
		20, 21, 22,, 40	3	30	630		
		2, 3, 4, 5, 6, 7, 8, 9 2, 3, 4, 5, 6, 7	8	5.5	44		
		5, 6, 7, 8, 9	5	7	35	]	
	<b>(b)</b>	multiply				1	
	(c)	odd [number]				1	
	(d)	ends in .5 oe				1	
3		Sequence		Median	Sum	5	1st row: <b>B1</b>
		4, 5, 6	3	5	15		2nd row: <b>B1</b> for sequence <b>B1</b> for median
		7, 8, 9, 10	4	8.5	34		3rd row: <b>B1</b> for sequence
		4, 5, 6, 7, 8, 9, 10 or 24, 25	7 or 2	7 or 24.5	49		B1 for median

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Question	Answer	Mark	Part Marks
4	485 500	2	<b>B1</b> 500 or 971 seen
			C opportunity
5	38, 39	3	B1 for each sequence
	8, 9, 10, 11, 12, 13, 14		or <b>B1</b> for 2 × 38.5
	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12		<b>B1</b> 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	