



Cambridge Assessment International Education Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/51

Paper 5 (Core)

October/November 2017

MARK SCHEME
Maximum Mark: 24

Published

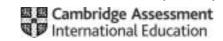
This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

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MARK SCHEME NOTES

The following notes are intended to aid interpretation of mark schemes in general, but individual mark schemes may include marks awarded for specific reasons outside the scope of these notes.

Types of mark

- M Method marks, awarded for a valid method applied to the problem.
- A Accuracy mark, awarded for a correct answer or intermediate step correctly obtained. For accuracy marks to be given, the associated Method mark must be earned or implied.
- B Mark for a correct result or statement independent of Method marks.

When a part of a question has two or more 'method' steps, the M marks are in principle independent unless the scheme specifically says otherwise; and similarly where there are several B marks allocated. The notation 'dep' is used to indicate that a particular M or B mark is dependent on an earlier mark in the scheme.

Abbreviations

awrt answers which round to cao correct answer only

dep dependent

FT follow through after error isw ignore subsequent working nfww not from wrong working

oe or equivalent

rot rounded or truncated

SC Special Case soi seen or implied

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Question		Answer			Mark	Partial Marks		
1(a)	3.6 × 4.5				2	B1 for each		
	3.6 + 3.6 + 4.5 + or $2 \times 3.6 + 2 \times $							
1(b)		.6 16. .8 19.	'	9.6	4	B1 for last two columns equal B1 for 2.5		
	10 2	.5 25	5 2	25		B1 for 2.4 B1 for 22		
		.4 28.		8.8		C opportunity		
	22 2	.2 48.	4 48	8.4		Copportunity		
1(c)	At least two mo	e 4s in the la	ast colum	n	1	C opportunity		
1(d)	4 by 4				2	B1 for either B1 for the other without extras		
	6 by 3							
- ()						If 0 scored, B1 for 1×4 and 2×2 soi		
2(a)	$[A =] \frac{1}{2} \times 7.2 \times 6.5 \text{ oe}$				2	B1 for each		
	[P=] 7.2 + 6.5	+ 9.7 oe						
2(b)(i)	2x + 36				1			
2(b)(ii)	10x				1			
2(b)(iii)	4.5 [20] 20.5				2	B1 for each B1FT their expressions if answer positive B1FT for 16 + their 4.5		
						C opportunity		
2(c)	6.5 7.2	9.7	23.4	23.4	4	B1FT for second row with <i>their</i> perimeter or <i>their</i> area in both cells		
	4.5 20	20.5	45	45		B1 for third row correct		
	4.8 14	14.8	33.6	33.6		B1 for 10.6 B1 for 25.2 twice		
	5.6 9	10.6	25.2	25.2				
						C opportunity		
2(d)	At least two more 8s in the last column				1	C opportunity		

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0607/51	Cambridge IGCSE – Mark Scheme PUBLISHED Answer Mark Partial Marks 6, 8, 10 3 B2 for one						
Question	Answer	Mark	Partial Marks				
2(e)	6, 8, 10	3	B2 for one				
	5, 12, 13		OR B1 for 6, 8 B1 for 5, 12 If 0 scored, B1 for 2 × 4 and 1 × 8 soi C opportunity				
Communication	on: seen in three of the following questions	1					
1(b)	any relevant calculation						
1(c)	one cell with correct working shown e.g. 5×0.8						
2(b)(iii)	their $10x = their (2x + 36)$						
2(c)	$33.6 \div 7$ or $33.6 - 14 - 14.8$ or $\sqrt{14.8^2 - 14^2}$ or $25.2 - 5.6 - 9$ or $\sqrt{5.6^2 + 9^2}$						
2(d)	one cell with correct working shown e.g. 0.4×20						
2(e)	"3, 4, 5" triangle or $\sqrt{6^2 + 8^2}$ or $\sqrt{5^2 + 12^2}$ or $\frac{1}{2} \times 6 \times 8 - 6 - 8$ or $\frac{1}{2} \times 5 \times 12 - 5 - 12$						

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