

Cambridge Assessment International Education Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/52 October/November 2017

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Paper 5 (Core) 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.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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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

answers which round to awrt correct answer only cao dep dependent follow through after error FT ignore subsequent working isw not from wrong working nfww or equivalent oe rounded or truncated rot Special Case SC seen or implied soi

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0607/52	Cambridge IGCSE – Mark Scheme PUBLISHED October/I INTRIISCIDUC Answer Marks Partial Marks 9 4 5				
Question	Answer	Marks	Partial Marks		
1(a)	9 4 5	1	- Con		
1(b)	3 is added two times oe	1			
	or				
	1 is added to 3 and not 2 oe				
2(a)	$ \begin{array}{r} 20 \\ 8 \\ 3 \\ 5 \\ 7 \end{array} $	2	B1 for 3 5 7 or for top three numbers correct following one error		
2(b)	A correct number wall with total > <i>their</i> 20	2	B1 for a number wall with (2 and 4) or (3 and 4) in middle of bottom row		
2(c)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3	B1 for each row		
3(a)	$\begin{array}{c} a+2b+c\\ a+b & b+c \end{array}$	2	B1 for each row		
3(b)	-2	1	C opportunity		
4(a)	a+3b+3c+d $a+2b+c$ $b+c$ $c+d$	2	B1 for 3 cells correct, may be unsimplified		
4(b)	<i>their</i> $(a + 3b + 3c + d) = 34$ oe	M1	C opportunity		
	4.25 or $\frac{34}{8}$ is not an integer oe	M1			
4(c)	3 5 1 2 6 or 4 4 2 1 7	2	B1 for $c = 1$ and $d = 2$ or c = 2 and $d = 1C opportunity$		
5(a)	Row gives the coefficients of <i>a</i> , <i>b</i> , <i>c</i> and <i>d</i> 3	2	B1 for each		
5(b)	[1]a + 4b + 6c + 4d + [1]e oe	1			
5(c)	$[1] \times 3 + 4 \times 5 + 6 \times 1 + 4 \times 2 + [1] \times 6 [= 43]$ or $[1] \times 4 + 4 \times 4 + 6 \times 2 + 4 \times 1 + [1] \times 7 [= 43]$	1	FT <i>their</i> correct 5(b) only		
5(d)	32272	1	C opportunity		

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Question	Answer	Marks	Partial Marks		
Communicat	ion: seen in one of the following questions	1		-OM	
3(b)	<i>their</i> $(a + 2b + c) = 7$				
4(b)	$8x = 34$ or $x + 3x + 3x + x = 34$ or $34 \div 8$				
4(c)	Completing all empty bricks with 23, 20, 11, 8, 3, 8 or showing working with equations				
5(d)	Relevant working $1 + 4 + 6 + 4 + 1$ or 16×2017 or completing the number wall				