



# Cambridge Assessment International Education Cambridge International General Certificate of Secondary Education

#### **CAMBRIDGE INTERNATIONAL MATHEMATICS**

0607/13

Paper 1 (Core)

October/November 2017

MARK SCHEME
Maximum Mark: 40

### **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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# Cambridge IGCSE – Mark Scheme **PUBLISHED**

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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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# Cambridge IGCSE – Mark Scheme **PUBLISHED**

0607/13	Cambridge IGCSE – Mark Scheme PUBLISHED  Answer Marks Partial marks  42700 1			
Question	Answer	Marks	Partial marks	
1	42700	1	·com	
2(a)	(2, 4)	1		
2(b)	Correct plot	1		
3	Data Type of data  Discrete  Continuous  Discrete  Continuous	2	B1 for 3 correct	
4	4	2	<b>B1</b> for 52 or 48 seen or 6, 4 and – 14 oe	
5(a)	All 5 lines correct	2	B1 for any 2 correct lines and no extras	
5(b)		1		
6	25 52 82 110	2	B1 FT for <i>their</i> correct values with one addition error	
7(a)	10	1		
7(b)	38	2	<b>M1</b> $\frac{19}{50}$ [× 100] oe seen	
7(c)	7/25	2	$\mathbf{B1} \ \frac{14}{50} \ \mathbf{seen}$	
8	30	1		
9	24 000	2	M1 for $20 \times 30 \times 40$ or better	
10	72	2	<b>M1</b> for 360 ÷ 5	
11	7	2	M1 for $\frac{2 \times 21}{6}$ oe or $\frac{2 \times A}{h}$	
12(a)	1	1		
12(b)	$18p^9$ final answer	2	<b>B1</b> for $18p^k$ or $kp^9$ , $k \neq 0$	
13	$2 \times 2 \times 2 \times 11$ or $2^3 \times 11$	2	<b>M1</b> for 2 × 44 or 2 × 2 × 22 or 2 × 4 × 11 or 8 × 11 or 2, 2, 2, 11	

Question	Answer	Marks	Partial marks
14	12	3	B1 for 9 seen and M1 for $\frac{their9}{75}$ [× 100] oe or B1 for $\frac{84}{75}$ oe and M1 for $(\frac{84}{75} - 1)$ [× 100] oe
15	$5.6\times10^{7}$	2	B1 for correct answer not in standard form
16	(0, 3)	3	<b>M2</b> for $(2, 3)$ plotted correctly and $x = 1$ drawn or <b>M1</b> for $(2, 3)$ plotted correctly or $x = 1$ drawn If zero scored <b>B1</b> for each component or <b>SC1</b> for $(2, -1)$ final answer
17(a)	(8, 5)	1	
17(b)	Translation $\begin{pmatrix} -3\\2 \end{pmatrix}$	2	B1 for each