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Paper 1 (Core)

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MARK SCHEME
Maximum Mark: 40

Published

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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

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	Marks	Partial marks
1	42700	1	
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	B1 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	M1 $\frac{19}{50}$ [× 100] oe seen
7(c)	$\frac{7}{25}$	2	$\mathbf{B1} \ \frac{14}{50} \ \mathrm{seen}$
8	30	1	
9	24 000	2	M1 for $20 \times 30 \times 40$ or better
10	72	2	M1 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	B1 for $18p^k$ or kp^9 , $k \neq 0$
13	$2 \times 2 \times 2 \times 11$ or $2^3 \times 11$	2	M1 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	5.6×10^7	2	B1 for correct answer not in standard form
16	(0, 3)	3	M2 for $(2, 3)$ plotted correctly and $x = 1$ drawn or M1 for $(2, 3)$ plotted correctly or $x = 1$ drawn If zero scored B1 for each component or SC1 for $(2, -1)$ final answer
17(a)	(8, 5)	1	
17(b)	Translation $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$	2	B1 for each