

INTERNATIONAL GCSE MATHEMATICS

9260/1C

Core Tier Paper 1C

Mark scheme

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2 5 B Y 9 2 6 0 / 1 C / M S

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Key to mark types and abbreviations

M	Method marks are awarded for a correct method which could lead to a correct answer.
A	Accuracy marks are awarded when following on from a correct method. It is not necessary to always see the method. This can be implied.
B	Marks awarded independent of method.
ft	Follow through marks. Marks awarded for correct working following a mistake in an earlier step.
SC	Special case. Marks awarded for a common misinterpretation which has some mathematical worth.
M dep	A method mark dependent on a previous method mark being awarded.
B dep	A mark that can only be awarded if a previous independent mark has been awarded.
oe	Or equivalent. Accept answers that are equivalent. eg accept 0.5 as well as $\frac{1}{2}$
[a, b]	Accept values between a and b inclusive.
[a, b)	Accept values $a \leq \text{value} < b$
3.14...	Accept answers which begin 3.14 eg 3.14, 3.142, 3.1416
Use of brackets	It is not necessary to see the bracketed work to award the marks.

Q	Answer	Mark	Comments
1(a)	17 053	B1	
	Additional Guidance		
	Ignore punctuation		

Q	Answer	Mark	Comments
1(b)	$\frac{1}{5}$	B1	oe fraction

Q	Answer	Mark	Comments
1(c)	29 700	B1	
	Additional Guidance		
	Ignore punctuation		

Q	Answer	Mark	Comments
1(d)	70 000 or seventy thousand	B1	condone ten thousand
	Additional Guidance		
	Ignore punctuation and spelling		

Q	Answer	Mark	Comments
2	Spinning a number less than 4	B1	

Q	Answer	Mark	Comments
3	21	B1	

Q	Answer	Mark	Comments
4(a)	$(-1, 4)$	B1	

Q	Answer	Mark	Comments
4(b)	$(3, 2)$	B1	SC1 $(4, -1)$ in part (a) and $(2, 3)$ in part (b)

Q	Answer	Mark	Comments
5	$13 \times 0.9(0)$ or $11.7(0)$ or $7 \times 0.9(0) + 4.75$ or 11.05 or $2 \times 4.75 + 0.9(0)$ or $4.75 \div 6$ or $0.79...$ or $[10.27, 10.3(0)]$ or $0.9(0) \times 6$ or $5.4(0)$	M1	oe
	$10.4(0)$	A1	

Q	Answer	Mark	Comments
6(a)	8	B1	

Q	Answer	Mark	Comments
6(b)	Correctly completed pictogram	B1	
	Additional Guidance		
	Mark intention for $\frac{3}{4}$ circle and for size of circles		
	Allow any orientation of a partial circle but do not allow separation of the parts		
	$\frac{3}{4}$ circle must have internal lines		

Q	Answer	Mark	Comments
6(c)	Any two valid comparisons eg He repaired more computers on Friday than any other day and He repaired the same number of computers on Monday and Tuesday	B2ft	ft their part (a) B1ft one valid comparison
	Additional Guidance		
	Allow “PC” or other clear indication for “computer”		
	Allow clear indication for days of the week eg Mon, Tues, Weds, Thurs, Fri		
	Ignore any non-contradictory or irrelevant statements		
	He repairs more computers each day as the week goes on		B0
	More on Thurs than on Tues		B1
	He repaired 7 on Thursday and (only) 6 on Tuesday		B1
	Mon = 6 and Tues = 6		B1
	Comparison 1 Mon = 6 Comparison 2 Tues = 6		B0
	Any comments stating a value from the graph without comparison eg On Monday he repaired 6 computers		B0
	Lots of computers broke on Friday		B0
	39 computers broke during this week		B0

Q	Answer	Mark	Comments
7	Alternative method 1: subtracts known lengths from perimeter first		
	$67 - 8.1 - 17.6 - 12.5$ or $67 - 38.2$ or 28.8	M1	oe
	their $28.8 \div 2$	M1dep	oe
	14.4	A1	oe
	Alternative method 2: forms and solves an equation		
	$x + x + 8.1 + 17.6 + 12.5 = 67$	M1	oe equation with any letter
	$(x =) \frac{67 - 8.1 - 17.6 - 12.5}{2}$	M1dep	oe
	14.4	A1	oe

Q	Answer	Mark	Comments
8(a)	$9y - 5x + 3w$	B2	terms in any order B1 $-5x$ or $(+)9y$

Q	Answer	Mark	Comments
8(b)	$7x + 39$ or $39 + 7x$	B2	B1 $5x + 45$ or $(+)2x - 6$ or $7x + a$ or $bx + 39$ where a and b are non-zero constants
	Additional Guidance		
	B2 response followed by further, incorrect work is B1 eg $7x + 39 = 46x$		B1
	B1 response followed by further, incorrect work is B1 eg $7x + 51 = 58x$		B1
	For B1 terms may be seen in a grid		

Q	Answer	Mark	Comments
9	Correctly translated triangle with vertices of $(-1, 0)$, $(1, 2)$ and $(0, -2)$	B2	B1 any two vertices correct with or without lines drawn in SC1 translation using vector $\begin{pmatrix} -5 \\ -3 \end{pmatrix}$
	Additional Guidance		
	Mark intention		

Q	Answer	Mark	Comments
10	Alternative method 1: works out how much sugar was handed out first		
	$\frac{2}{15} \times 1800$ or 240	M1	oe
	1800 – their 240 or 1560	M1dep	oe eg $\frac{13}{15} \times 1800$ scores M2
	their 1560 $\div$ 20	M1dep	oe
	78	A1	
	Alternative method 2: works with one twentieth of the bag and the fraction shared out		
	$1 - \frac{2}{15}$ or $\frac{13}{15}$	M1	oe
	1800 $\div$ 20 or 90	M1	oe
	their $\frac{13}{15} \times$ their 90	M1dep	oe dep on M1M1
	78	A1	
	Alternative method 3: works with one twentieth of the bag and the fraction remaining		
	1800 $\div$ 20 or 90	M1	oe
	$\frac{2}{15} \times$ their 90 or 12	M1dep	oe
	their 90 – $\frac{2}{15} \times$ their 90	M1dep	oe
	78	A1	

Q	Answer	Mark	Comments
11	$67\,000\,000 \div 2144$	M1	
	31 250	A1	implied by correctly rounded answer
	31 300	B1ft	ft any number with more than 3 sf rounded correctly to 3 sf

Q	Answer	Mark	Comments
12	Alternative method 1: direct calculation		
	13×5 or 65	M1	
	22	A1	may be seen on the card
	Alternative method 2: set up an equation		
	$\frac{3 + 7 + 14 + 19 + x}{5} = 13$	M1	oe equation any letter
	22	A1	may be seen on the card
	Additional Guidance		
	Embedded answer		M1A0

Q	Answer	Mark	Comments
13(a)	$7.5 \times 40\,000$ or 300 000 or $40\,000 \div 100$ or 400 or $7.5 \div 100$ or 0.075	M1	oe
	3000	A1	

Q	Answer	Mark	Comments
13(b)	Alternative method 1: converts actual distance into map distance first		
	$15 \times 100\,000$ or $1\,500\,000$ or $15 \div 40\,000$ or 0.000375 or $100\,000 \div 40\,000$ or 2.5	M1	oe
	$15 \times 100\,000 \div 40\,000$ or 37.5	M1dep	oe
	13.5	A1	
	Alternative method 2: converts map distance into actual distance first		
	$15 - 24 \times 40\,000 \div 100\,000$ or 5.4	M1	oe
	their $5.4 \times 100\,000 \div 40\,000$	M1dep	oe
	13.5	A1	

Q	Answer	Mark	Comments
14	$5n + 8 = 93$ or $5n = 93 - 8$ or $5n = 85$ or $n + 1.6 = 18.6$ or $(93 - 8) \div 5$ or $85 \div 5$	M1	oe eg $-5n = 8 - 93$ or $18.6 - 1.6$
	$(n =) 17$	A1	implied by 157 or correct answer
	$11 \times \text{their } 17 - 30$ or 157 or $(5 + 11) \times \text{their } 17 + 8 - 30$ or $16 \times \text{their } 17 - 22$	M1	oe ft any value for n less than 93
	250	A1ft	SC2 157 SC1 156.9... ft any value for n less than 93 final answer must be an integer
	Additional Guidance		
	SC2 and SC1 for green = 93		
	$5n = 101$ $(n =) 20.2$ $16 \times 20.2 - 22$ 301.2		M0A0M1A0
	$5n = 101$ $(n =) 20.2$ $16 \times 20.2 - 22$ 301		M0A0M1A1ft
	$5n = 100$ $(n =) 20$ $16 \times 20 - 22$ 298		M0A0M1A1ft

Q	Answer	Mark	Comments
15	Alternative method 1: works with numbers of people as first step		
	75 000 $\times$ 0.43 or 32 250 or 75 000 $\times$ (1 – 0.43) or 42 750	M1	oe eg $\frac{43}{100} \times 75\,000$
	75 000 $\times$ (1 – 0.43) – 75 000 $\times$ 0.43	M1dep	oe
	10 500	A1	
	Alternative method 2: works with percentages as first step		
	(100 – 43)(%) – 43(%) or 14(%)	M1	oe eg (1 – 0.43) – 0.43
	$\frac{\text{their } 14}{100} \times 75\,000$	M1dep	oe eg 0.14 $\times$ 75 000
	10 500	A1	

Q	Answer	Mark	Comments
16	(top sequence) 23 and (bottom sequence) 4 or identifies the rules – 5 and – 6	M1	implied by $-5n$ and $-6n$
	–2	A1	
	Additional Guidance		
	Rules may be marked on the sequences		
	Accept subtract 5 or minus 5 for – 5		
	Differences of 5 and 6 seen (without negatives) with answer of –32 or –62 or –92		M1A0
	Difference of 5 and 6 (without negatives) only		M0A0
	$-5n + 43$ and $-6n + 28$		M1

Q	Answer	Mark	Comments
17	$5 \times 8 \times 9$ or 360 or $16 \times 3 \times h$ or $48h$	M1	may be seen in an equation
	$48h = 360$ or $5 \times 8 \times 9 \div (16 \times 3)$ or $360 \div 48$	M1dep	oe
	7.5	A1	
	Additional Guidance		
	Answer embedded in calculation and no answer or incorrect answer eg $16 \times 3 \times 7.5 = 360$		M2A0

Q	Answer	Mark	Comments
18	One correct reading from the graph	M1	eg 20 knots = [22.5, 23.5] mph $\pm$ half a small square tolerance
	Scales their reading to 200 knots	M1dep	
	[225, 235]	A1	

Q	Answer	Mark	Comments
19(a)	1, 4, 6, 8, 9	B2	any order B1 all 5 correct values with one other or any 4 correct values with no others

Q	Answer	Mark	Comments
19(b)	5, 7	B1ft	correct or ft their A from part (a) either order

Q	Answer	Mark	Comments
20	$\frac{7}{7+13+10}$ or $\frac{7}{30}$ or $\frac{15}{15+19+16}$ or $\frac{15}{50}$	M1	oe fraction, decimal or percentage
	$\frac{7}{30}$ and $\frac{15}{50}$ in a comparable form and Class B	A1	eg 0.2(3...) and 0.3 and Class B or $\frac{35}{150}$ and $\frac{45}{150}$ and Class B or $\frac{7}{30}$ and $\frac{9}{30}$ and Class B

Q	Answer	Mark	Comments
21(a)	An appropriate line of best fit passing between (7.5, [18, 23]) and (17.5, [26, 29])	B1	accept if clear intention to draw a straight line allow a curve or dotted line not zig/zags ignore anything either side of the gates
	Correct reading for their line of best fit	B1ft	ft their line of best fit if increasing throughout $\pm$ half a small square
	Additional Guidance		
	Ignore working lines drawn on the graph		
	No line of best fit drawn		B0B0

Q	Answer	Mark	Comments
21(b)	Valid reason	B1	eg out of range (of data) extrapolation is not reliable no other data that far along
	Additional Guidance		
	It is not reliable (no reason given)		B0

Q	Answer	Mark	Comments
22	$3b - 5$	B1	oe implied by $6b - 10$ or correct answer
	$2 \times (\text{their } 3b - 5)$ or $6b - 10$	M1	oe
	$7b - 10$	A1ft	ft their $3b - 5$
	Additional Guidance		
	Any subject, eg P = at the start of an expression can be ignored		
	Do not ignore further work after $7b - 10$ seen		

Q	Answer	Mark	Comments
23	Alternative method 1: works with given angles		
	Correctly identify the value of any angle not given	M1	may be on the diagram
	Correctly identify an angle or angles that could be used to show a contradiction	M1dep	may be on the diagram
	Contradiction shown with M2 awarded	A1	
	Alternative method 2: assumes lines are parallel		
	Correct identify the value of any angle not given assuming lines AB and CD are parallel	M1	may be on the diagram
	Correctly identify an angle or angles based on the assumption that could be used to show a contradiction	M1dep	may be on the diagram
	Contradiction shown with M2 awarded	A1	

Q	Answer	Mark	Comments
24	Three correct matches	B3	B2 two correct matches B1 one correct match
	Additional Guidance		
	Two lines from an equation is choice for that equation		

Q	Answer	Mark	Comments
25(a)	21 000 000 000 or 50 000 or (2.1 ÷ 5 =) 0.42 or $10^{10} \div 10^4 = 10^6$ or correct value not in standard form	M1	eg 420 000
	4.2×10^5	A1	
	Additional Guidance		
	Condone $10^5 \times 4.2$		M1A1
	Ignore an incorrect conversion to an ordinary number in working from the correct value in standard form eg $0.42 \times 10^6 = 4.2 \times 10^5 = 42000$, with answer 4.2×10^5		M1A1

Q	Answer	Mark	Comments
25(b)	2.7×10^{-5} , 9.6×10^{-5} , 8.3×10^{-4} , 3.5×10^3 with no incorrect conversions seen	B2	B1 one value out of order or reverse order
	Additional Guidance		
	If three of the values have been placed in the answer space the fourth is implied		
	Answers may be given in ordinary form or a mixture		

Q	Answer	Mark	Comments
26(a)	8^2 and 13^2 or 233	M1	oe eg 64 and 169 implied by 105 or $\sqrt{105}$ or 10.2(...)
	$\sqrt{8^2 + 13^2}$ or $\sqrt{64 + 169}$ or $\sqrt{233}$	M1	oe
	15.2(6...) or 15.3 with M1 seen	A1	accept 15 with M1 seen
	Additional Guidance		
	15.2(6...) with no working		M0M0A0
	15.2(6...) using trigonometry or accurate/scale drawing only		M0M0A0

Q	Answer	Mark	Comments
26(b)	Alternative method 1: uses or states cos or sin		
	cos stated or used or $\frac{\sin 90}{21} = \frac{\sin(90 - y)}{7}$	M1	oe eg $\frac{\sin 90}{21} = \frac{\sin(y)}{\sqrt{21^2 - 7^2}}$
	$\cos y = \frac{7}{21}$ or $\cos y = 0.333\dots$ or $90 - \sin^{-1} \frac{7}{21}$	M1	oe eg $90 - [19, 19.5]$
	[70, 71] with M2 seen	A1	
	Alternative method 2: works out opposite side first		
	$\tan y = \frac{\sqrt{21^2 - 7^2}}{7}$ or $\sin y = \frac{\sqrt{21^2 - 7^2}}{21}$	M2	oe eg $\tan^{-1} \frac{\sqrt{392}}{7}$ or $\sin^{-1} \frac{\sqrt{392}}{21}$ allow [19.7, 19.8] for $\sqrt{21^2 - 7^2}$
	[70, 71] with M2 seen	A1	
	Additional Guidance		
	Alt 1 SOHCAHTOA with CAH selected (eg circled)	M1	
	[70.5, 71] with no working	M0M0A0	
	[70.5, 71] from accurate/scale drawing only	M0M0A0	

Q	Answer	Mark	Comments
27	10	B1	