

INTERNATIONAL GCSE MATHEMATICS

9260/1C

Core Tier Paper 1C

Mark scheme

June 2025

Version: 1.0 Final



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

Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

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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)	(0).35	B1	condone extra zeros which do not affect the value

Q	Answer	Mark	Comments
1(b)	$\frac{59}{100}$	B1	oe fraction
	Additional Guidance		
	Correct fraction seen but percentage on answer line		B0

Q	Answer	Mark	Comments
1(c)	125	B1	

Q	Answer	Mark	Comments
1(d)	14	B1	
	Additional Guidance		
	$\frac{84}{6}$ oe fraction		B0

Q	Answer	Mark	Comments
2(a)	173	B1	

Q	Answer	Mark	Comments
2(b)	(0).94	B1	condone extra zeros which do not affect the value

Q	Answer	Mark	Comments
3	Alternative method 1: division		
	$4 \div 0.74$ or $400 \div 74$ or $5.4(\dots)$ or 74×5 or 370 or 0.74×5 or $3.7(0)$ or 74×6 or 444 or 0.74×6 or 4.44	M1	oe
	5	A1	
	Alternative method 2: build-up or build-down		
	74, 148, 222, 296, 370, (444) or 326, 252, 178, 104, 30	M1	
	5	A1	
	Additional Guidance		
	Answer 5 with no incorrect working		M1A1
	Answer 5 from incorrect working		M0A0

Q	Answer	Mark	Comments
4(a)	343	B1	

Q	Answer	Mark	Comments
4(b)	890	B1	

Q	Answer	Mark	Comments
5(a)	Kite	B1	

Q	Answer	Mark	Comments
5(b)	Rectangle	B1	

Q	Answer	Mark	Comments																
6(a)	21 in Red Pens	B1																	
	29 in Blue Pencils and 45 in Total Pencils	B2	B1 29 in Blue Pencils or 45 in Total Pencils or their 45 – their 29 = 16																
	Additional Guidance																		
	<table><tr><td></td><td>Pens</td><td>Pencils</td><td>Total</td></tr><tr><td>Blue</td><td>14</td><td>29</td><td>43</td></tr><tr><td>Red</td><td>21</td><td>16</td><td>37</td></tr><tr><td>Total</td><td>35</td><td>45</td><td>80</td></tr></table>			Pens	Pencils	Total	Blue	14	29	43	Red	21	16	37	Total	35	45	80	B1B2
		Pens	Pencils	Total															
Blue	14	29	43																
Red	21	16	37																
Total	35	45	80																
Mark the table only																			

Q	Answer	Mark	Comments
6(b)	$\frac{14}{35}$ or 0.4 or 40%	M1	oe
	$\frac{2}{5}$	A1	SC1 any proper fraction with denominator 35, 45 or 80 seen and correctly simplified or $\frac{14}{70}$ seen with answer $\frac{1}{5}$
	Additional Guidance		
	The SC1 is for using any other total which would give a fraction that simplifies or adding the three values in the Pens column to get a total of 70		

Q	Answer	Mark	Comments									
7	<table><tr><td>18</td><td>4</td><td>20</td></tr><tr><td>8</td><td>15</td><td>12</td></tr><tr><td>10</td><td>24</td><td>6</td></tr></table>	18	4	20	8	15	12	10	24	6	B3	B2 3 or 4 rows/columns have product 1440 B1 1 or 2 rows/columns have product 1440
	18	4	20									
	8	15	12									
	10	24	6									
	Additional Guidance											
Mark the grid only												
Do not mark the given column												
Allow mixed numbers or decimals for B2 or B1												

Q	Answer	Mark	Comments
8	False with valid reason	B1	eg it should be negative or -15
	True with valid reason	B1	eg $4 \times 5^2 = 100$ or $4 \times 25 = 100$
	Additional Guidance		
	Positive $\times$ negative is negative		B1
	Positive $\times$ negative is positive		B0
	a would be -5 or b would be 3		1st B1
	You need to square the 5 first		2nd B1

Q	Answer	Mark	Comments
9(a)	Cannot tell and valid reason referring to not knowing how many are 12 and how many are 13	B1	
	Additional Guidance		
	Cannot tell and Can't tell the ratio between students aged 12 and 13		B1
	Cannot tell and We don't know the percentages		B1
	Cannot tell and It's only true if there's 15 of each		B1
	Cannot tell and There's no information about the ages		B1

Q	Answer	Mark	Comments
9(b)	0.3 or compares 9 out of 30 to 0.4 or 0.4 would be 12 students	B1	eg $\frac{3}{10}$ and $\frac{4}{10}$ or 30% and 40%
	Additional Guidance		
	Comparisons must be in the same format, and fractions must have the same numerators or the same denominators eg1 9 : 30 and 12 : 30 eg2 $\frac{12}{40}$ and $\frac{12}{30}$		B1 B1

Q	Answer	Mark	Comments
10	Sector	B1	

Q	Answer	Mark	Comments
11(a)	11	B1	may be on diagram

Q	Answer	Mark	Comments
11(b)	6	B1	
	Additional Guidance		
	Condone embedded answers eg $6 \times 2 + 5 = 17$		B1

Q	Answer	Mark	Comments
11(c)	$2c + 5$ or $\frac{d-5}{2}$	M1	oe
	$d = 2c + 5$ or $c = \frac{d-5}{2}$	A1	oe

Q	Answer	Mark	Comments												
12(a)	<table><tr><td>x</td><td>-2</td><td>-1</td><td>0</td><td>1</td><td>2</td></tr><tr><td>y</td><td>-1</td><td>1</td><td>3</td><td>5</td><td>7</td></tr></table>	x	-2	-1	0	1	2	y	-1	1	3	5	7	B2	B1 one or two correct values
	x	-2	-1	0	1	2									
	y	-1	1	3	5	7									
Additional Guidance															
Mark the table only															

Q	Answer	Mark	Comments
12(b)	4 or 5 points plotted correctly	M1	correct or ft their table in (a) ± 2 mm points may be implied by graph passing through them
	Straight line from $(-2, -1)$ to $(2, 7)$	A1	± 2 mm
	Additional Guidance		
	Ignore extra points plotted with different x -coordinates		
	Two points with the same integer x -coordinate, with the line going through neither, is choice for the plotting of that point and therefore incorrect		
	Ignore the line drawn outside $(-2, -1)$ and $(2, 7)$		

Q	Answer	Mark	Comments
13	$28 \div 4$ or 7	M1	oe
	$(\text{their } 7)^2$ or 49	M1dep	oe
	their 49×0.6 or their 49×600 or 29400	M1	oe their 49 can be any number
	29.4	A1	accept 29 with 29.4 or 49 seen SC1 16.8
	Additional Guidance		
	SC1 is for the perimeter $\times 0.6$		

Q	Answer	Mark	Comments
14	Alternative method 1: total cost of both		
	0.17×395 or 67.15	M1	oe
	$395 - \text{their } 67.15$ or 327.85	M1dep	oe 0.83×395 scores M2
	$12 \times 20 (+ 100)$ or $240 (+ 100)$ or 340	M1	oe
	A and 327.85 and 340	A1	
	Alternative method 2: monthly payments needed at Shop A		
	0.17×395 or 67.15	M1	oe
	$395 - \text{their } 67.15$ or 327.85	M1dep	oe 0.83×395 scores M2
	$(\text{their } 327.85 - 100) \div 12$ or [18.98, 18.99]	M1dep	
	A and [18.98, 18.99]	A1	

Q	Answer	Mark	Comments
15(a)	Positive	B1	ignore 'strong', 'weak', etc

Q	Answer	Mark	Comments
15(b)	Straight line through (10, [14, 19]) and (40, [42, 47])	B1	mark intention

Q	Answer	Mark	Comments
15(c)	Correct value for their line of best fit	B1ft	ft their line of best fit which must be a line or curve increasing throughout $\pm \frac{1}{2}$ small square
	Additional Guidance		
	No line of best fit drawn		B0

Q	Answer	Mark	Comments
16	$(180 - 32) \div 2$ or 74 or $ADC = 180 - 49$ or 131	M1	identified as BDC or BCD or ABD angles may be seen on the diagram
	180 – their 74 – 49 or $360 - 3 \times \text{their } 74 - 32 - 49$ or their 131 – their 74	M1dep	oe
	57	A1	
	Additional Guidance		
	Condone C for BCD		

Q	Answer	Mark	Comments
17	Alternative method 1: works out total height and subtracts 5 given values		
	102×6 or 612	M1	oe
	their $612 - (121 + 110 + 96 + 85 + 105)$ or $612 - 517$	M1dep	oe
	95	A1	
	Alternative method 2: sets up and solves an equation		
	$(121 + 110 + 96 + 85 + 105 + x) \div 6$ or $(517 + x) \div 6$	M1	oe
	$121 + 110 + 96 + 85 + 105 + x = 102 \times 6$ or $517 + x = 612$	M1dep	oe
	95	A1	
	Alternative method 3: differences from the mean		
	$19 + 8 - 6 - 17 + 3$ or 7 or $-19 - 8 + 6 + 17 - 3$ or -7	M1	oe sum of 5 differences with at least 4 correct
	$102 - \text{their } 7$ or $102 + \text{their } -7$	M1dep	
	95	A1	
	Additional Guidance		
	Trial and improvement scores 0 or 3		

Q	Answer	Mark	Comments
18	$180 \times (10 - 2)$ or 1440 or $360 \div 10$ or 36	M1	oe
	144	A1	

Q	Answer	Mark	Comments
19(a)	1st term = 19	B1	
	2nd term = 23	B1ft	correct or their $19 + 4$ SC1 1st term = 15 and 2nd term = 19
	Additional Guidance		
	The SC1 is for those who start with the '0th' term		

Q	Answer	Mark	Comments
19(b)	$3n - 7$ or $7 - 3n$	B2	oe B1 correct unsimplified expression or $3n + k$ oe where k is any constant
	Additional Guidance		
	B2 response followed by further, incorrect work is B1 eg $3n - 7 = -4n$		B1
	B1 response followed by further, incorrect work is B1 eg $3n - 6 = -3n$		B1
	Ignore LHS eg1 $T_n = 3n - 7$ eg2 $n = 3n$		B2 B1
	Condone use of N or other variables		
	$3n$ may be seen as $3 \times n$ or $n \times 3$ or n^3 for B1 but needs full simplification for B2 eg1 $3 \times n - 7$ eg2 $n^3 - 7$ eg3 n^3		B2 B2 B2
	Condone $-4 + (n - 1)^3$		B1

Q	Answer	Mark	Comments
20	Alternative method 1: uses or states sin		
	sin stated or used	M1	
	$\sin x = \frac{14.2}{18.7}$ or $\sin x = 0.759\dots$ or 0.76 or $90 - \cos^{-1} \frac{14.2}{18.7}$	M1dep	oe eg $90 - [40.5, 40.6]$
	49.(...) with M2 seen	A1	
	Alternative method 2: works out missing side first		
	$\cos x = \frac{\sqrt{18.7^2 - 14.2^2}}{18.7}$ or $90 - \sin^{-1} \frac{\sqrt{18.7^2 - 14.2^2}}{18.7}$	M2	oe eg $\cos^{-1} 0.65(0\dots)$ or $\cos^{-1} 0.651$ or $90 - \sin^{-1} 0.65(0\dots)$ or $90 - \sin^{-1} 0.651$ allow $[12.16, 12.17]$ for $\sqrt{18.7^2 - 14.2^2}$
	49.(...) with M2 seen	A1	
	Additional Guidance		
	Alt 1 SOHCAHTOA with SOH selected (eg circled)	M1	
	49.(...) with no working	M0M0A0	
	49.(...) from accurate/scale drawing only	M0M0A0	

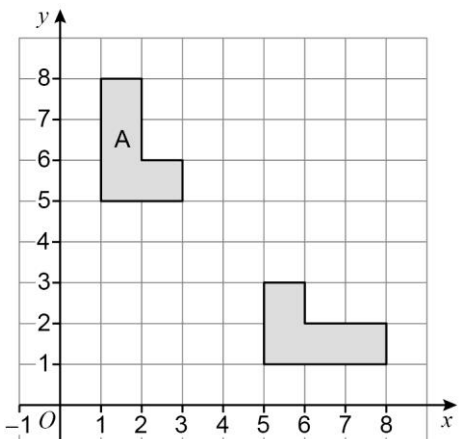
Q	Answer	Mark	Comments
21	$6y + 8y - 4 = 31$ or $14y - 4 = 31$	M1	oe
	$14y = 31 + 4$ or $14y = 35$ or $(y =) 2.5$ or $(31 + 4) \div 14$ or 2.5	M1dep	oe
	$6 \times \text{their } 2.5$ or 15 or $8 \times \text{their } 2.5 - 4$ or 16 or $2 \times \text{their } 2.5 - 4$ or 1	M1dep	oe
	15 and 16 and No or 15 and twice 15 is 30 and No or 16 and twice 16 is 32 and No or White is 1 more and No	A1	oe eg 15 and half of 31 is 15.5 and No
	Additional Guidance		
	Trial and improvement needs to get to 2.5 to score the first two marks		
	15 < 16 without a correct decision		M3A0
	Answer $6y < 8y - 4$ with 15 and 16 seen		M3A1

Q	Answer	Mark	Comments
22	<p>All 3 correct</p> <div><div>Increases 500 by 7</div><div>Increases 500 by 7%</div><div>Works out 7% of 500</div><div>Decreases 500 by 7%</div><div>500 × 1.07</div><div>500 ÷ 7</div><div>500 × 0.93</div><div>500 × 1.93</div><div>500 × 0.07</div></div>	B3	<p>B2 2 correct</p> <p>B1 1 correct</p>
	Additional Guidance		
	2 lines from a left-hand box is choice		

Q	Answer	Mark	Comments
23	Alternative method 1: works out the number for each and subtracts		
	0.35×200 or 70 or $(1 - 0.35) \times 200$ or 0.65×200 or 130	M1	oe
	$(1 - 0.35) \times 200 - 0.35 \times 200$ or $130 - 70$	M1dep	oe
	60	A1	
	Alternative method 2: uses the difference in probabilities		
	$(1 - 0.35) - 0.35$ or 0.3	M1	oe
	their 0.3×200	M1dep	oe
	60	A1	

Q	Answer	Mark	Comments
24	24.5	B1	oe

Q	Answer	Mark	Comments
25	1.0484×10^7	B2	condone extra zeros which do not affect the value eg 1.0484000×10^7 B1 correct value not in standard form eg 10 484 000 or 10.484×10^6 or 8.64×10^5 or value not in standard form correctly converted to standard form

Q	Answer	Mark	Comments
26(a)		B2	allow unruled edges if intention is clear B1 vertices correct without shape drawn or line $y = x$ drawn or shape with correct size and orientation but incorrect position
Additional Guidance			
Ignore shading			

Q	Answer	Mark	Comments
26(b)	Rotation, 90° anticlockwise, (0, 0) or rotation, 270° clockwise, (0, 0)	B3	B2 rotation, 90° anticlockwise or rotation, (0, 0) or rotation, 270° clockwise or 90° anticlockwise, (0, 0) or 270° clockwise, (0, 0) B1 rotation or 90° anticlockwise or 270° clockwise or (0, 0)
	Additional Guidance		
	Accept rotate or rotating for rotation		
	Accept counter-clockwise for anti-clockwise		
	Accept the origin or O for (0, 0)		
	Condone quarter turn for 90° and three-quarter turn for 270°		
	Condone missing degrees symbol and/or missing coordinate brackets, but do not accept coordinates in vector form		
	Other or combined transformation eg1 rotate 90 anticlockwise and move 4 down and 6 left eg2 reflection, (0, 0)		B0 B0

Q	Answer	Mark	Comments
27	At least two terms correct from $10x + 30 - 6 + 2x$	M1	implied by $12x$ or $(+) 24$
	$12x + 24$	A1	oe
	$12(x + 2)$ or $a = 12$ and $b = 2$	B1ft	ft their $12x + 24$ in the form $a(x + b)$ with M1 scored
	Additional Guidance		
	$10x + 30 - 6 - 2x = 8x + 24 = 8(x + 3)$		M1A0B1ft
	Ignore any attempt to 'solve' an equation		