

INTERNATIONAL GCSE MATHEMATICS

9260/2C

Core Tier Paper 2C

Mark scheme

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2 5 6 Y 9 2 6 0 / 2 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)	9	B1	

Q	Answer	Mark	Comments
1(b)	7	B1	

Q	Answer	Mark	Comments
1(c)	$9 \times 11 = 99$ or $11 \times 9 = 99$	B1	

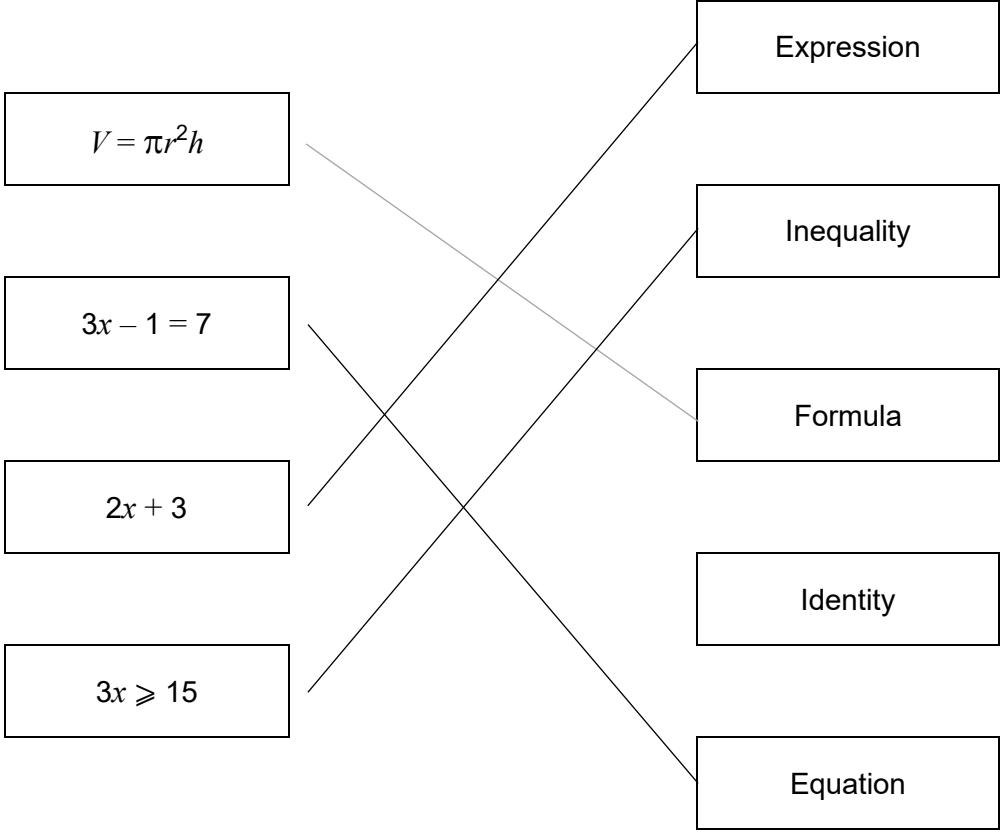
Q	Answer	Mark	Comments
2	13	B1	accept ± 13

Q	Answer	Mark	Comments
3(a)	$6.44 \div 7 (\times 3)$ or $0.92 (\times 3)$ or $\frac{3}{7} \times 6.44$ or $644 \div 7 (\times 3)$ or $92 (\times 3)$ or 276 or $\frac{3}{7} \times 644$	M1	oe
	2.76	A1	

Q	Answer	Mark	Comments
3(b)	1.54×2 or 3.08 or 154×2 or 308 or 214	M1	oe may be embedded eg $5.22 - 1.54 - 1.54$
	2.14	A1	

Q	Answer	Mark	Comments
4(a)	$\frac{2}{5}$ or 0.4(0) or 40%	B1	oe fraction, decimal or percentage
	Additional Guidance		
	Answer in correct form and in words eg two in five = $\frac{2}{5}$		B1
	Answer in words only eg 2 out of 5		B0
	Answer as a ratio, with or without answer in correct form eg 2 : 5 = 0.4		B0

Q	Answer	Mark	Comments
4(b)	$\frac{3}{5}$ or 0.6(0) or 60%	B1ft	oe fraction, decimal or percentage correct or ft 1 – their answer to (a)
	Additional Guidance		
	Answer in correct form and in words eg three in five = $\frac{3}{5}$		B1
	Answer in words only eg 3 out of 5		B0
	Answer as a ratio, with or without answer in correct form eg 3 : 5 = 0.6		B0

Q	Answer	Mark	Comments
5	All 3 matches correct	B3	B1 for each correct match
	Additional Guidance		
	2 lines from one left hand box is choice for that box		
			B3

Q	Answer	Mark	Comments
6	$\frac{4}{9}$ $\frac{3}{5}$ $\frac{5}{8}$ with no incorrect working	B2	oe B1 at least two values in comparable form eg 0.4(...), 0.6, 0.625 or $\frac{24}{40}$ and $\frac{25}{40}$
	Additional Guidance		
	Accept answers in any form eg $\frac{4}{9}$ 60% 0.625		B2

Q	Answer	Mark	Comments
7	5 for both Science and History	B1	may be seen in the table or implied by bars drawn at correct heights
	Four bars at correct heights Four bars with equal widths Four bars with equal gaps or no gaps Four bars correctly labelled	B3	ft their values for Science and History B2 three criteria met B1 two criteria met SC1 no values or bars for Science and History with everything correct for Maths and English
	Additional Guidance		
	Mark intention throughout		
	Condone a different gap between the vertical axis and the first bar to the other, equal gaps		
	Vertical line graph – criterion for equal width bars not met		

Q	Answer	Mark	Comments
8(a)	(Triangular) prism	B1	condone triangle prism

Q	Answer	Mark	Comments
8(b)	Faces 5	B1	
	Edges 9	B1	
	Vertices 6	B1	

Q	Answer	Mark	Comments
9(a)	$14a^2$	B1	

Q	Answer	Mark	Comments
9(b)	$4x = 24 + 12$ or $4x = 36$ or $x - 3 = 6$ or $(24 + 12) \div 4$	M1	oe eg $-4x = -12 - 24$ or $\frac{-36}{-4}$ or $6 + 3$ or $\frac{36}{4}$
	9	A1	
	Additional Guidance		
	Embedded answer		M1A0
	$\frac{4x - 12}{4} = \frac{24}{4}$ with no further correct working		M0

Q	Answer	Mark	Comments
9(c)	$2y(y + 3)$ or $2y(3 + y)$	B2	B1 $y(2y + 6)$ or $2(y^2 + 3y)$ allow multiplication signs for B2 or B1
	Additional Guidance		
	Condone missing final bracket for B2 or B1		
	$y(6 + 2y)$ etc		B1
	$(2y + 0)(y + 3)$ $(y + 0)(2y + 6)$	B2 B1	
	Ignore expansion of a B2 or B1 response		
	B2 response followed by further, incorrect work is B1 eg $2y(y + 3) = 8y^2$		B1
	B1 response followed by further, incorrect work is B1 eg $2(y^2 + 3y) = 6y^3$		B1
	Ignore any attempt to 'solve' eg1 $2y(y + 3)$ in working lines with 0 and -3 on answer line eg2 $y(2y + 6)$ in working lines with 0 and -3 on answer line		B2 B1
	Condone incorrect order for B1 but not for B2 eg1 $(y + 3)2y$ eg2 $(y^2 + 6)y$		B1 B1
	Condone inclusion of coefficient 1 for B1 but not for B2 eg1 $2y(1y + 3)$ eg2 $2(1y^2 + 3y)$		B1 B1

Q	Answer	Mark	Comments
9(d)	$5x - 9$	B2	B1 $\frac{15x - 27}{3}$ or $\frac{10x - 18}{2}$ or $\frac{5x - 9}{1}$ oe not fully simplified expression

Q	Answer	Mark	Comments
10(a)	Alternative method 1: working in hours		
	$12.8 \times 5 \times 2$ or 128 or $12.8 \div 40$ or 0.32 or $12.8 \times 2 \div 40$ or $25.6 \div 40$ or 0.64 or $12.8 \times 5 \div 40$ or 64×40 or 1.6	M1	oe
	$12.8 \times 5 \times 2 \div 40$ or 3.2	M1dep	oe implied by 3 hours 2 minutes or 3 hours 20 minutes
	3 hours and 12 minutes	A1	SC2 5 hours and 20 minutes
	Alternative method 2: working in minutes		
	$12.8 \div 40 \times 60$ or 19.2 or $12.8 \times 2 \div 40 \times 60$ or $25.6 \div 40 \times 60$ or 38.4 or $12.8 \times 5 \div 40 \times 60$ or $64 \div 40 \times 60$ or 96	M1	oe
	$12.8 \div 40 \times 60 \times 5 \times 2$ or 192	M1dep	oe
	3 hours and 12 minutes	A1	SC2 5 hours and 20 minutes
	Additional Guidance		
	SC2 is from converting 0.64 to 1 hour 4 minutes before $\times 5$ days		

Q	Answer	Mark	Comments
10(b)	It is more than the answer to part (a)	B1	

Q	Answer	Mark	Comments
11	$180 \div (3 + 2)$ or $3k + 2k = 180$ or $5k = 180$ or $(k =) 36$	M1	oe accept any letter other than x or y
	$180 \div (3 + 2) \times 2$ or 36×2	M1dep	oe $180 \times \frac{2}{5}$ scores M2
	72	A1	SC2 108
	Additional Guidance		
	SC2 is for angle x		

Q	Answer	Mark	Comments
12	$\frac{2(x-8)}{3}$ or $\frac{2x-16}{3}$ or $2(x-8) \div 3$	B2	oe B1 $x - 8$
	Additional Guidance		
	For B1 $x - 8$ may be seen in any expression eg $2(x - 8)$		B1
	$2 \times x - 8$		B1
	$2 \times (x - 8)$		B1
	$x - 8 \times 2 \div 3$		B1
	$2x - 8$		B0

Q	Answer	Mark	Comments
13(a)	5.76(4)	B2	B1 answer as a fraction eg $\frac{1441}{250}$ or $5\frac{191}{250}$ or $(3.9^2 =) 15.21$ or $(3.9^2 - 0.8 =) 14.4$ or $(\sqrt{6.25} =) 2.5$ or 5.76 or 5.8 SC1 14.89
			Additional Guidance
			SC1 is from $3.9^2 - 0.8 \div \sqrt{6.25}$

Q	Answer	Mark	Comments
13(b)	5.8	B1ft	correct or ft their decimal answer from (a) provided it has more than 2 sf
	Additional Guidance		
	Answer $\frac{1441}{250}$ in (a) and 5.8 in (b)		B1 in (a) B1 in (b)
	Answer 5.8 in (a) and 5.8 in (b)		B1 in (a) B1 in (b)

Q	Answer	Mark	Comments	
14(a)	11 : 6	B2	B1 24 or 22 : 12 or $1 : \frac{6}{11}$ or $\frac{11}{6} : 1$ or correct full simplification of their ratio	
	Additional Guidance			
	eg 44 : 68 simplified to 11 : 17		B1	

Q	Answer	Mark	Comments
14(b)	$1 : \frac{9}{2}$ or 1 : 4.5 or $1 : 4\frac{1}{2}$	B1	oe fraction, mixed number or decimal

Q	Answer	Mark	Comments
15	False	B3	B1 each correct answer
	False		
	True		
	Additional Guidance		
	Any unambiguous indication, but if a tick and a cross are used in the same row, mark the tick		
	A row with more than one tick is incorrect for that row		

Q	Answer	Mark	Comments
16(a)	$-4 < x \leq 5$ or $5 \geq x > -4$	B2	any letter B1 $-4 < x$ or $x > -4$ or $x \leq 5$ or $5 \geq x$
	Additional Guidance		
	$-4 < x$ and $x \leq 5$		B1
	$-4 < x$ and $x \geq 5$		B1
	$-4 < x \geq 5$		B1
	$-4 \leq x \leq 5$		B1
	$-4 > x \geq 5$		B0
	$-4 \leq 5$		B0

Q	Answer	Mark	Comments
16(b)	Closed circle at 2 with an arrow to the left 	B1	mark intention circle and arrow can be above, below or on the line

Q	Answer	Mark	Comments
16(c)	-2 -1 0 1 2	B2	any order B1 all five correct and one incorrect or four correct and none incorrect

Q	Answer	Mark	Comments
17	10.5^2 and 25.2^2 or 745.29	M1	oe eg 110.25 and 635.04 implied by 524.79 or $\sqrt{524.79}$ or 22.9(...)
	$\sqrt{10.5^2 + 25.2^2}$ or $\sqrt{635.04 + 110.25}$ or $\sqrt{745.29}$	M1dep	oe
	27.3(...) with M1 seen	A1	accept 27 with M1 seen
	Additional Guidance		
	27.3(...) with no working		M0M0A0
	27.3(...) using trigonometry or accurate/scale drawing only		M0M0A0

Q	Answer	Mark	Comments
18	$\pi \times 42^2 \times 150$ or [830 844, 831 374] or $264\,600\pi$	M1	oe allow working in dm^3
	their [830 844, 831 374] $\div 1000 \div 4.5$ or $264\,600\pi \div 1000 \div 4.5$ or 58.8π	M2	their [830 844, 831 374] must be from a calculation involving at least two of π , 42 and 150 M1 their [830 844, 831 374] $\div 1000$ or [830, 832] or their [830 844, 831 374] $\div 4.5$ or [184 632, 184 750] or $264\,600\pi \div 1000$ or 264.6π or $264\,600\pi \div 4.5$ or $58\,800\pi$
	[184, 185]	A1	

Q	Answer	Mark	Comments
19	$\frac{84}{60} (\times 100)$ or $1.4 (\times 100)$ or $\frac{84 - 60}{60} \times 100$ or $\frac{24}{60} \times 100$ or 40	M1	oe
	140	A1	

Q	Answer	Mark	Comments
20(a)	$y = 6$	B1	oe eg $y - 6 = 0$

Q	Answer	Mark	Comments
20(b)	$2x = 6$	M1	may be on diagram implied by (3, 6) or (3, 0)
	$x = 3$	A1	oe eg $x - 3 = 0$
	Additional Guidance		
	$2x = 6$ on answer line		M1A1
	$2x = 6$ and further working eg $x = 12$		M1A0
	$x = 3$ in working with an incorrect equation on the answer line		M1A0

Q	Answer	Mark	Comments
21	False True True False	B3	B2 3 correct B1 1 or 2 correct
	Additional Guidance		
	Any unambiguous indication, but if a tick and a cross are used in the same row, mark the tick		
	A row with more than one tick is incorrect for that row		

Q	Answer	Mark	Comments
22	$x + 4 + 2x - 1 + 2x + 3 = 28.5$ or $5x + 6 = 28.5$	M1	oe eg $28.5 - 3 - 4 + 1 = 2x + 2x + x$
	$(5x =) 22.5$ or $(x =) 4.5$ or $(x + 4 =) 8.5$ or $(2x + 3 =) 12$	M1dep	
	8	A1	
	Additional Guidance		
	Answer $2x - 1$ with $(2x - 1 =) 8$ in working		M1M1A1

Q	Answer	Mark	Comments
23	Alternative method 1: works with actual values		
	$(1 - 0.28) \times 35\,000$ or $0.72 \times 35\,000$ or $35\,000 - 0.28 \times 35\,000$ or $35\,000 - 9800$ or $25\,200$	M1	oe eg $(1 - 28\%) \times 35\,000$
	$(1 - 0.15)^2 \times \text{their } 25\,200$ or $0.85^2 \times \text{their } 25\,200$ or $18\,207$ or $16\,793$	M1dep	oe eg $0.85 \times 25\,200 = 21\,420$ followed by $0.85 \times 21\,420$
	No and $18\,207$ and $17\,500$ or No and $36\,414$ or No and $18\,207 = 52(.02)\%$ or No and $16\,793 = 47.98\%$	A1	oe accept 48% for 47.98%
	Alternative method 2: works with percentages		
	$1 - 0.28$ or 0.72 and $1 - 0.15$ or 0.85	M1	oe
	0.72×0.85^2 or $0.52(02)$ or $52(.02)\%$ or 47.98% or 48%	M1dep	oe
	No and $52(.02)\%$ or No and 47.98%	A1	oe eg No and It is 0.52 (more than half) accept 48% for 47.98%

Q	Answer	Mark	Comments
24	2^{17-5} or 2^{12} or 4096 or $2^{(3 \times a)}$ or 2^{3a} or $a \times 3 = 17 - 5$ or $3a = 12$ or $(2^a =) \sqrt[3]{2^{17} \div 2^5}$ or $(2^a =) \sqrt[3]{2^{12}}$ or $(2^a =) 2^4$ or $(2^a =) 16$	M1	
	4	A1	

Q	Answer	Mark	Comments
25	Alternative method 1: using co-interior angles		
	180 – 60 or 120	M1	may be seen in correct place on diagram
	360 = 90 + their 120 + x or 360 – 90 – their 120 or 150	M1dep	oe eg 360 = 90 + their 120 + $2y$ may use any letter(s) to indicate angles
	their 150 ÷ 2 or 75	M1dep	may be seen on diagram for <i>DAC</i> or <i>BAC</i>
	165	A1	
	Alternative method 2: extends AB to meet North line from D		
	180 – 90 – 60 or 30	M1	seen in correct place on diagram
	180 – their 30 or 150	M1dep	
	their 150 ÷ 2 or 75	M1dep	may be seen on diagram for <i>DAC</i> or <i>BAC</i>
	165	A1	
	Alternative method 3: extends North line from A downwards		
	60 seen as alternate angle	M1	seen in correct place on diagram
	60 + 90 = 150	M1dep	oe
	their 150 ÷ 2 or 75	M1dep	may be seen on diagram for <i>DAC</i> or <i>BAC</i>
	165	A1	
	Alternative method 4: extends DA		
	60 seen as corresponding angle	M1	seen in correct place on diagram
	180 – their 30 or 150	M1dep	oe
	their 150 ÷ 2 or 75	M1dep	may be seen on diagram for <i>DAC</i> or <i>BAC</i>
	165	A1	
	Additional Guidance		
	Up to M3 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts		