

Scale Drawings

November 2021 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
5	7cm by 4cm rectangle drawn	M1 A1	for a rectangle drawn with one correct dimension or $35 \div 5 (=7)$ and $20 \div 5 (=4)$ for a fully correct 7cm by 4cm rectangle drawn	Correct calculations/measurements seen the method mark can be awarded even if the drawing is incorrect or not present Accept any orientation of a correct rectangle

June 2024 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
6 (a)	32	P1	for process to find length, eg 8×4	
		A1	cao	
	2.5 cm	P1	for process to find length, eg $10 \div 4 (= 2.5)$ oe eg $1 + 1 + 1 \div 2 (= 2.5)$	
		A1	for 2.5 cm oe eg 25 mm, 0.025 m	Must include correct units

November 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
7 (a)	15	B1	cao	
(b)	4	B1	cao	

June 2023 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
8	96	P1 P1 A1	for process to find total distance before or after using scale, eg $8 + 16 (= 24)$ or “32” + “64” oe for process to use scale, eg $8 \times 4 (= 32)$ or $16 \times 4 (= 64)$ or $[PR] \times 4$ cao	Condone incorrect use of scale if addition seen. where [PR] is 12 or 13 or is clearly stated

November 2021 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
12 (a)	50	M1	[2.5] \times 20 (=50)	[2.5] a number in the range 2.3 to 2.7 or identified as the distance from Shelton to Trilby
		A1	for an answer in the range 46 to 54	
(b)	60	M1	5 \times 1200 (=6000) or 1200 \div 100 (=12) or conversion 5 \div 100 (=0.05)	
		A1	cao	

June 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
13 (a)	300	M1	for a correct method to measure and convert one line to a distance in metres, eg. ($AB =$) $5 \times 150 (= 750$ or in the range 720 to 780) or ($BC =$) $4 \times 150 (= 600$ or in the range 570 to 630) or ($AC =$) $7 \times 150 (= 1050$ or in the range 1020 to 1080) or for $5 + 4 - 7 (=2$ or in the range 1.4 to 2.6)	Accept measurements given in mm instead of cm for the first mark. Accept measurements given to a tolerance of ± 2 mm
		M1	for a complete method, eg. “750” + “600” – “1050” or “2” \times 150	Where “750”, “600”, “1050” and “2” have come from their measurements
		A1	for answer in the range 210 to 390	
(b)	288	B1	for answer in the range 286 to 290	

June 2020 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
13 (a)	0.25	B1	for angle in the range 23 to 27	Accept without the initial 0, eg. 25
	1.25	M1	for measurement of AB in the range 4.8 to 5.2 (cm) or 48 to 52 (mm)	Could be just seen on the diagram
		M1	for “5” \times 25000 (= 125000) or “50” \times 25000 (= 1250000) or “5” \div 100000 (= 0.00005) or “50” \div 1000000 (= 0.00005) or 25000 \div 100000 (= 0.25) or 25000 \div 1000000 (= 0.025)	125000 or 1250000 seen implies M1M1 For the award of this mark, “5” or “50” can be any value in the range 4 to 6 or 40 to 60
		A1	for answer in the range 1.2 to 1.3	

November 2022 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
14 (a)	81	M1	for $54 \times [\text{time}]$ eg $54 \times 1\frac{1}{2}$ oe, or $54 + 54 \div 2$ oe	[time] could be $1\frac{1}{2}$ oe or any other time that has been changed from $1\frac{1}{2}$, eg 90 (mins) or 1.30 or 130
(b)	1.5	A1	cao	
		P1	for use of scale eg $6 \times 25\ 000$ (= 150 000) or for $25\ 000 \div 100\ 000$ (= 0.25) or $25\ 000 \div 100$ (= 250) or $25\ 000 \div 1000$ (= 25)	
		P1	for “150 000” \div 100 000 (= 1.5) or “150 000” \div 100 (= 1500) or “150 000” \div 1000 (= 150) or for $[0.25] \times 6$ (= 1.5)	[0.25] could be found by dividing 25 000 by 100 (= 250) or dividing 25 000 by 1000 (= 25)
		A1	for 1.5 oe	

November 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
15	3.5	M1	for a correct first step, eg $14 \times 25\,000 (= 350\,000)$ or digits 14 \times digits 25 or $25\,000 \div 100\,000 (= 0.25)$ oe or $14 \div 100\,000 (= 0.00014)$ or [distance] $\div 100\,000$	[distance] is any calculated value using digits 14 and digits 25
		M1	for a complete method, eg “350 000” $\div 100\,000$ oe or “0.25” $\times 14$ or “0.00014” $\times 25\,000$	
		A1	for 3.5 oe	

June 2022 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
16	47	P1	for process to find scale factor eg $62 \div 12.4 (= 5)$ or $12.4 \div 62 (= 0.2)$ or $9.4 \div 12.4 (= 0.758\dots)$ or $12.4 \div 9.4 (= 1.31\dots)$	Note 1:500 is an acceptable scale factor
		P1	for process to use the scale factor eg “5” \times 9.4 or 9.4 \div “0.2” or $62 \times$ “0.758..” or $62 \div$ “1.31..”	Accept working in mixed units or with inconsistent units eg $620 \div 12.4 (= 50)$ for process marks only
		A1	Accept answers in the range 46.5 to 47.7	