

## Scale Drawings Past Paper Questions (MS)



Q1.

Question	Answer	Mark	Mark scheme	Additional guidance
	263.2	M1	for using the scale eg $14 \times 18.8$ or $14 \times 18$	
		A1	or for the digits 2632 or an answer of 263 cao	

Q2.

Question	Answer	Mark	Mark scheme	Additional guidance
	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 $62 \times$ " $0.758\dots$ " or $62 \div$ " $1.31\dots$ "	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	

Q3.

Question	Answer	Mark	Mark scheme	Additional guidance
	80	M1	for converting to cm	Can be done at any stage of the problem eg $19.2 \times 100 (=1920)$ or $0.8 \times 100$
		M1	for use of scale eg $19.2 \div 24 (= 0.8)$ or $1920 \div 24$ or $[\text{length}] \div 24$	$[\text{length}]$ must come from an attempt to change 19.2 metres into cm
		A1	cao	

Q4.

5MB3F/01 June 2015				
Question	Working	Answer	Mark	Notes
(i)		3 L, 1S or 1 L, 4S	4	B1 for 3 and 1 or 1 and 4
(ii)		(supported) Diagram		M1 for correct length of 150 cm unit on plan M1 for correct length of 100 cm unit on plan A1 for fully correct plan



Q5.

PAPER: 5MB3F_01				
Question	Working	Answer	Mark	Notes
		11	3	M1 for measurement of a single side eg 8 (cm), 3 (cm) or method to find total length M1 for use of scale with a length eg 4 (m), 1.5 (cm) A1 answers in the range 10.8 to 11.2 SC B1 for 44

Q6.

5MB3F_01 November 2015				
Question	Working	Answer	Mark	Notes
		16.75	2	M1 for 6.5 – 6.9 (cm) or “measurement” × 2.5 A1 for 16.25 – 17.25

Q7.

Question	Working	Answer	Mark	Notes
(a)		35	M1 A1	for measuring distance correctly (6.8 to 7.2 cm) or multiplying their distance by 5 for answer in the range 34 to 36
(b)		× on the map	M1 A1	for method to use the scale to equate 22 km to cm, eg $22 \div 5 (= 4.4)$ or for a point plotted due South of B ( $\pm 2^\circ$ ) for correct position on map

Q8.

Question	Working	Answer	Mark	Notes
		6	3	M1 measuring of one of the lines, $\pm 2\text{mm}$ , and scaling ( $\times 2$ ) M1 a complete method, $AB + BC - AC$ , scaled or unscaled A1 answer in range 4.8 to 7.2 supported by correct working