

Mark Scheme - Jan/Feb 2025 – Foundation Chapters 7, 8 and 9

Q1.

PAPER: 5MB2F_01					
Question	Working	Answer	Mark	Notes	
	(i)	obtuse	2	B1	cao
	(ii)	125		B1	accept 123 - 127

Q2.

Question	Answer	Mark	Mark scheme	Additional guidance
	Drawing	B1	for drawing point R from T at a distance of 5.5 cm.	Unless ambiguous point R can be indicated by a cross, dot, or interpreted as the end of a line drawn from T .
		B1	for drawing point R from T on a bearing of 65°	

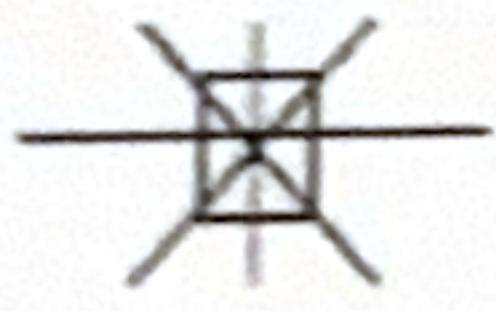
Q3.

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	14	B1	cao	
(b)	18	B1	cao	

Q4.

Question	Working	Answer	Mark	Notes
		187	M1	for a method to find a missing length, e.g. $15 - 7 (= 8)$ or $22 - 9 (= 13)$ (may be seen on the diagram)
			M1	for a method to find the area of the triangle, e.g. $((15 - 7) \times (22 - 9)) \div 2 (= 52)$ or to find the area of the rectangle, e.g. $9 \times 15 (= 135)$
			A1	cao

Q5.

	Working	Answer	Mark	Notes
(a)			2	M1 for any 1 correct line of symmetry allow extras A1 for all 4 lines and no extras
(b)		2	1	B1 cao
(c)		70	2	M1 for 7×10 A1 for 70

Q6.

Paper: 5MB3F_01				
Question	Working	Answer	Mark	Notes
		enlarge ment scale factor 3 centre O	3	B1 for enlargement B1 for scale factor 3 B1 for (centre) O oe NB: B0 for any combination of transformations

Q7.

Question	Working	Answer	Mark	Notes
		Reflection in the x-axis (or $y = 0$)	B1 B1	for reflection for x-axis (or $y = 0$) NB: award no marks if more than one transformation is given

Q8.

Paper 1MA1: 1F			Notes	
Question	Working	Answer		
		Rotation of 90° clockwise about (0,0)	M1	For two of 'rotation', (0,0), 90° clockwise oe
			A1	Correct transformation

Q9.

Question	Working	Answer	Notes
		Translation by $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$	B1 for translation B1 $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$

Q.

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	Cross marked at 0	B1		Allow if intention is clear
(b)	Cross marked at $\frac{1}{2}$	B1		Allow if intention is clear

Q11.

Question	Working	Answer	Mark	Notes
(a)		3	1	B1 cao
(b)		Square on grid	1	B1 correct position
(c)		Square drawn	2	B2 for square within tolerance (see overlay) (B1 for any line 4 cm \pm 2mm or angle $90^\circ \pm 2^\circ$)

Q12.

Question	Working	Answer	Notes
(a)		Table complete	B1 cao
(bi)		$\frac{1}{10}$	B1 for $\frac{1}{10}$ oe or ft from table $\frac{2}{20} = \frac{1}{10}$
(bii)		$\frac{7}{10}$	B1 for $\frac{7}{10}$ oe or ft from table $\frac{14}{20} = \frac{7}{10}$

Q13.

Question	Working	Answer	Mark	Notes
(i)		$\frac{7}{18}$	3	B1 for $\frac{7}{18}$ oe
(ii)		$\frac{12}{18}$		B1 for $\frac{12}{18}$ or $\frac{2}{3}$ oe
(iii)		0		B1 for 0 or $\frac{0}{18}$ or zero oe

Q14.

Question	Answer	Mark	Mark scheme	Additional guidance
	500	B1	cao	

Q15

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	2500	B1	cao	
(b)	0.09	B1	cao	

Q16.

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	7360	B1	cao	
(b)	0.10779813 56	B2 (B1)	for 0.1077(981...) for 5.74(45626...) or 53.29 or 0.11 or 0.107 or 0.108)	Answer must be given to at least 4 decimal places rounded or truncated Accept a clear indication of the decimal point. Check first four decimal places only

Q17.

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	62	M1	for distance ÷ time eg $186 \div 3$ or $186 \div (3 \times 60) (=1.03..)$ cao	May use hours or minutes at this point
(b)	232	A1 M1 A1	for speed × time eg 58×4 or $58 \times 4 \times 60 (=13920)$ cao	May use hours or minutes at this point

Q18.

Question	Answer	Mark	Mark scheme	Additional guidance
	530	B1	cao	

Q19.

Question	Working	Answer	Mark	Notes
(a)		14	B1 P1 A1	for use of $1000 \text{ g} = 1 \text{ kg}$ for process to find number of bags, e.g. $5000 \div 350 (= 14.2\dots)$ cao
(b)		Yes (supported)	B1	for Yes, with explanation, e.g. will fill 28 bags, ft from (a)