

GCSE MATHEMATICS
MARK SCHEME – Specimen Paper – Unit 3 (Terminal) Foundation Modular Section B

Questions	Working	Answer	Mark	Notes
1 (a) (b) (c)		25	1	B1
		$\frac{63}{100}$	1	B1
		0.07	1	B1
2 (a) (b)		7	2	B1 for 7
		-10 6	1	B1 for -10 B1 for 6 (accept -6)
3 (a) (b) (c)		$4 \text{ cm} \pm 0.2$	1	B1
		$108^\circ \pm 2$	1	B1
		line of 12 cm midpoint	1	B1 for line of 12 cm ± 2 mm B1 ft for midpoint drawn ± 2 mm
4 (a) (b)		320	2	M1 for $50 \div 100 \times 640$ A1 cao
		5.60	2	M1 for $10 \div 100 \times 56$ A1 cao
5 (a) (b)		B	1	B1
		A	1	B1
6 (a) (b)		7	1	B1
		21	2	M1 for $3 \div 5 \times 35$ A1 cao
7 (a) (b) (c)		158	1	B1
		153	2	M1 for 290 – 137 A1 ft
		cities	2	B1 for Manchester & Liverpool
8		1 to 5	3	B3 for all four matchings correct (B2 for 2 correct) (B1 for one correct)
		2 to 3		
		3 to 4		
		5 to 1		

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9				
(a)	$\frac{4}{10} + \frac{1}{10}$	$\frac{5}{10}$	2	M1 for $\frac{4}{10} + \frac{1}{10}$ A1 for $\frac{1}{2}$ oe
(b)	$\frac{2}{12}$	$\frac{1}{6}$	2	M1 for $\frac{2}{12}$ oe A1 cao
10				
(a)		5	1	B1
(b)		5 lines	1	B1
11		$2f + 7g$	2	B2 (B1 for $2f$ or $7g$ seen)
12		construction	2	B2 for triangle within overlay (B1 for $4\text{cm} \pm 2\text{ mm}$ or $35^\circ \pm 2^\circ$)
13				
(a)	$5p = 4 + 3 = 7$	-3	1	B1
(b)		1.4	2	M1 for 7 seen A1 cao
(c)	$2q - 5q = 5 + 4$ $-3q = 9$	-3	2	M1 for $2q - 5q = 5 + 4$ oe A1 cao
(d)	$10r + 35 = 70$, $10r = 35$	3.5	2	M1 for $10r + 35$ or $70 \div 5$ or 14 seen A1 cao
14				
	$80 + \frac{17.5}{100} \times 80 = 80 + 14$	94	2	M1 for $\frac{17.5}{100} \times 80$ or 14 seen A1 for £94 or £94.00
15				
(a)		tessellation	2	B2 for at least 6 shapes drawn correctly (B1 for at least 4 shapes drawn correctly)
(b)		enlargement	2	B2 for correct enlargement (B1 for one line correctly enlarged)

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16 (a)	$(8 \times 6) \div 2$	24	2	M1 for $(8 \times 6) \div 2$ A1 cao
(b)	$\sqrt{8^2 + 6^2} = \sqrt{100}$	10	3	M1 for $8^2 + 6^2$ or $64 + 36$ or 100 seen M1 for $\sqrt{8^2 + 6^2}$ A1 cao
17	$70 \div 5 \times 2$ $70 \div 5 \times 3$	28, 42	3	B3 for both correct B2 for one correct B1 for $70 \div 5$ seen
18 (i) (ii) (iii)		7^8 7^6 7^2	2 1	B1 cao B1 cao B1 ft from their (i) and (ii)