GCSE MATHEMATICS

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

Questions	Working	Answer	Mark	Notes
1 (a)		25	**1**	B1
(b)		$\frac{63}{100}$	**1**	B1
(c)		0.07	**1**	B1
2 (a) (i)		7	**2**	B1 for 7
(ii)		−10		B1 for −10
(b)		6	**1**	B1 for 6 (accept −6)
3 (a) (i)		4 cm ± 0.2	**1**	B1
(ii)		108° ± 2	**1**	B1
(b)		line of 12 cm	**1**	B1 for line of 12 cm ± 2 mm
(c)		midpoint	**1**	B1 ft for midpoint drawn ± 2 mm
4 (a)	50 ÷ 100 × 640	320	**2**	M1 for 50 ÷ 100 × 640 A1 cao
(b)	10 ÷ 100 × 56	5.60	**2**	M1 for 10 ÷ 100 × 56 A1 cao
5 (a)		B	**1**	B1
(b)		A	**1**	B1
6 (a)		7	**1**	B1
(b)	3 ÷ 5 × 35	21	**2**	M1 for 3 ÷ 5 × 35 A1 cao
7 (a)		158	**1**	B1
(b)	300 – 137	153	**2**	M1 for 290 – 137 A1 ft
(c)		cities	**2**	B1 for Manchester & Liverpool
8		1 to 5 2 to 3 3 to 4 5 to 1	**3**	B3 for all four matchings correct (B2 for 2 correct) (B1 for one correct)

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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 4cm ± 2 mm or 35° ± 2°)
13 **(a)**		–3	**1**	B1
(b)	$5p = 4 + 3 = 7$	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)		7^8	**2**	B1 cao
(ii)		7^6		B1 cao
(iii)		7^2	**1**	B1 ft from their (i) and (ii)