

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

Questions	Working	Answer	Mark	Notes
1 (a) (i) (b) (ii) (iii)		reflection line right-angled equilateral	1 1 1 1	B1 B1 B1 for right-angled or scalene B1
2	2159 – 1962 $197 \times 21p$	41.37	4	M1 for 2159 – 1962 M1 197 seen M1 for “197” $\times 21$ or 0.21 or digits 4137 A1 cao
3 (a) (b)		A, E shape	1 1	B1 for both, no extras B1
4 (a) (b) (c)		isosceles acute obtuse	1 1 1	B1 B1 B1
5 (a) (b)	7.20×8 $57.60 + 234$	57.60 291.60	2 1	M1 for 7.20×8 or digits 576(000) seen A1 cao B1 f.t. for “a” + 234
6 (a) (b) (c)	10×5	10 5.5 ± 0.2 50	1 1 2	B1 B1 M1 for “10” $\times 5$ or any other valid method A1 cao
7		$\frac{1}{5}$, 22%, $\frac{2}{7}$, 0.3	3	M1 for converting $\frac{1}{5}$ or $\frac{2}{7}$ to a decimal or % A2 cao (M1A1 for one in the incorrect position)

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8 (i) (ii) (iii)		$9c$ $3fg$ $3x^2$	3	B1 B1 B1
9 (a) (b)	$5.2 + 2.8$ $f = g + 3h$ $f - g = 3h$ $\frac{f - g}{3} = h$	6 $\frac{f - g}{3} = h$	2 2	B1 for 2.8 seen A1 cao B1 for $f - g = 3h$ A1 cao
10 (i) (ii)	Dinosaur 3 - 3.5 taller than the man “3.3” $\times 6 =$ “20” $\times 0.3$	$19-21$ $6.0-7.0$	4	M1 3-3.5 times taller M1 “3.3” $\times 6$ A1 20 (accept 19-21) B1 ft “20” $\times 0.3 = 6$ (accept 6. – 7.0) Or “20” $\div 3.3 = 6.6$
11 (a) (b)	$180 - 40 =$ $180 - 2 \times 40$	140 100	2 3	B1 cao B1 reason (straight line) M1 2×40 A1 cao B1 reason (isosceles)

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12 (a)	$\$35.50 \div 1.42 = \pounds 25$; $\pounds 26.99 - \pounds 25 = \pounds 1.99$ Cheaper in the USA Or $\pounds 26.99 \times 1.42 = \38.33 ; $\$38.33 - 35.50 = \2.83 Cheaper in the USA	USA	2	M1 $\$35.50 \div 1.42$ A1 $\pounds 25$ OR: M1 $\pounds 26.99 \times 1.42$ A1 $\$38.33$
(b)	$\pounds 1.99$ or $\$2.83$	$\pounds 1.99$ or $\$2.83$	2	B1 conclusion B1 difference found
13		3, 6, 6, 7.5	2	B2 all four correct (B1 for two correct)
14	$\pounds 2.40 \times 0.8 = \pounds 1.92$ $\pounds 2.70 \times \frac{2}{3} = \pounds 1.80$	Cheetah at $\pounds 1.80$	4	M1 for 2.40×0.8 (oe) A1 for $\pounds 1.92$ M1 for $\pounds 2.70 \times \frac{2}{3}$ or $\pounds 1.80$ seen A1 for $\pounds 1.80$ and Cheetah as cheapest
15 (a)	$7 \times 14 + 121 = 219$	219	2	M1 $7 \times 14 + 121$ A1 cao
(b)		$14G + 121$	2	B2 cao (B1 for $14G$)

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16	$4(y + 3) = 6$ $4y + 12 = 6$ $4y = -6$ $y = -1.5$	- 1.5	3	B1 for $4y + 12$ or $y + 3 = 6 \div 4$ M1 for isolating $4y$ A1 oe
17		3.2	4	B2 for a trial between 3.1 and 3.5 incl (B1 for a trial between 3 and 4 incl) B1 for a trial between 3.2 and 3.3 excl B1 for 3.2 (dep on at least B1)