

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

Questions	Working	Answer	Mark	Notes
1 (a) (b) (iii)		reflection line right-angled equilateral	1 1 1 1	B1 B1 B1 for right-angled or scalene B1
2	2159 – 1962 197 × 21p	41.37	4	M1 for 2159 – 1962 M1 197 seen M1 for “197” × 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 5.5 ± 0.2 50	1 1 2	B1 B1 M1 for “10” × 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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<b>8</b> (i) (ii) (iii)		$9c$ $3fg$ $3x^2$	<b>3</b>	B1 B1 B1
<b>9</b> (a)  (b)	$5.2 + 2.8$  $f = g + 3h$ $f - g = 3h$ $\frac{f - g}{3} = h$	$6$  $\frac{f - g}{3} = h$	<b>2</b>  <b>2</b>	B1 for 2.8 seen A1 cao B1 for $f - g = 3h$ A1 cao
<b>10</b> (i) (ii)	Dinosaur 3 - 3.5 taller than the man “3.3” $\times 6 =$ “20” $\times 0.3$	19-21  6.0-7.0	<b>4</b>	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” $\div 3.3 = 6.6$
<b>11</b> (a)  (b)	$180 - 40 =$  $180 - 2 \times 40$	140  100	<b>2</b>  <b>3</b>	B1 cao B1 reason (straight line) M1 $2 \times 40$ A1 cao B1 reason (isosceles)

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