GCSE MATHEMATICS
MARK SCHEME – Specimen paper (Linear) Foundation Paper 1

Questions	Working	Answer	Mark	Notes
1 (a) (i)		(3, 3)	**1**	B1 cao
(ii)		(1, 0)	**1**	B1 cao
(b)		Midpoint marked at $(2, 1\frac{1}{2})$	**1**	B1 allow 2 mm tolerance from $(2, 1\frac{1}{2})$
2		260, 254	**1**	A1 cao
3 (a)		7	**2**	M1 Ordering: 6677888 A1 cao
(b)		7	**1**	B1 cao
(c)		4.5	**1**	B1 Accept 4.3 – 4.7
4 (a)		Jan, Feb, Mar	**1**	B1 cao
(b)		Allium	**1**	B1 cao
(c)		May and June	**1**	B1 cao
(d)		Daffodil	**1**	B1 cao
(e) (i)		$\frac{1}{5}$	**1**	B1 for $\frac{1}{5}$ oe
(ii)		X marked on line at $\frac{3}{5}$	**1**	B1 for cross between $\frac{1}{2}$ and $\frac{3}{4}$
5 (a)		13 591	**1**	B1 cao
(b)		Thousands, 1000, 7000	**1**	B1 cao
(c)		8200	**1**	B1 cao

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6	**(a)**			millilitres, m*l*, cm^3 cc centimetres, cm grams, g	**3**	B1 oe B1 oe B1 oe
	(b)			8000	**1**	B1 oe
7	**(a)**			25, 32	**1**	B1 for both
	(b)	**(i)**		32 or 80	**2**	B1 accept both
		(ii)		9, 25 or 49		B1 accept any amount of correct answers
	(c)			factor	**1**	B1 Could be indicated in the box.
	(d)	**(i)**		18	**3**	B1 cao
		(ii)		11 or 88		B1 accept both
		(iii		69		B1 cao

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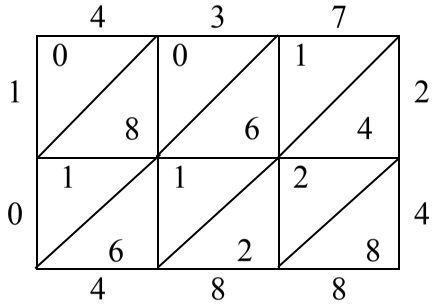
8	437 24 1748 8740 10488 or 24 437 168 720 9600 10488 or  	10488	**3**	M2 for complete method, allow one arithmetic error (M1 for complete method, allow two arithmetic errors) A1 cao
9 **(a)**		1.60	**1**	B1 cao, could be indicated on the diagram
(b)	2.40 + 0.40	2.80	**2**	M1 2.40 + 0.40 or 0.08 × 35 or 0.80 × 3.5 oe valid method A1 cao SC B1 for 280, with or without working

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10 (a)		17, 83, 91, 109, 140 – 8, – 4, – 2, 1, 4	**1**	B1 cao
(b)		0.6, $\frac{2}{3}$, 70 %, $\frac{3}{4}$	**1**	B1 cao
(c)			**2**	B1 cao
11 (a)		Octagon	**1**	B1 accept alternatives (recognisable) spelling
(b)		135 + 135 + 90 = 360 Sum of angles at a point is 360°	**2**	B1 for 360 or (1080) seen B1 for "point", "complete turn" or "a circle" or similar unless accompanied by an incorrect angle SC: if neither B1 scored, award B1 for a clear indication that the size of the angle other then x, is 90º or a right angle (may be on diagram)
(c)	$10 \times 4 + 5 \times 4$	60	**2**	M1 for $10 \times 4 + 5 \times 4$ or attempt to sum 7 or 8 lengths A1 cao
12 (a)	$\frac{60}{100}$	$\frac{3}{5}$	**1**	B2 cao (B1 for $\frac{60}{100}$ or $\frac{30}{50}$ or $\frac{15}{25}$ or $\frac{12}{20}$ or $\frac{6}{10}$) SC B1 for 0.6
(b)		45	**1**	B1 cao

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13 (a)	France 𝍸 5 Spain 𝍸 𝍸 7 Italy 𝍸 4 England 𝍸 4		**4**	M1 for attempt to tally A1 for 1 frequency correct or all tallies correct A1 for all frequencies correct (accept if /20) B1 for correct total
14 (a)		1710	**1**	B1 accept 5 10pm. Do not accept 510
(b) (i)	83.40 ÷ 10	8.34(0)	**2**	M1 for 83.4 ÷ 10 oe A1 cao
(ii)		9	**1**	B1 ft from "8.34" unless whole number of pounds
15 (a)		6	**2**	B2 for 6 cao (B1 for $5.5 < \text{area} \leq 7$)
(b)	See diagram	correct shape	**2**	B2 (B1 for any 2 sides correct, with a minimum of five sides, or a correct enlargement scale factor $\neq 1$ or 2)
16		13 17 13 8 25	**2**	B2 All correct (B1 for 2 correct)
17 (a)		$5p + 7q$	**2**	B2 for $5p + 7q$ (accept $5 \times p$ etc) (B1 for $5p$ or $7q$ seen)
(b)		$3x + 5y$	**2**	B2 for $3x + 5y$ (accept $3 \times x$ etc) (B1 for $3x$ or $5y$)
(c)		$3w^2$	**1**	B1 accept $3 \times w^2$ or $3 \times w \times w$
18	$80 \times \frac{4}{5}$	64	**2**	M1 80×4 or 320 seen or $80 \div 5$ or 16 seen A1 cao

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19 (a) (i)		60	**2**	B1 cao
(ii)		eg left triangle is equilateral		B1 for reason
(b)	"60" + 90	150	**2**	M1 for $\frac{180-"60"}{2} + 90$ A1 ft from a(i) if $x < 90$ SC: B1 for answer from "60" + 90 if $x < 90$
20 (a)	(4 + 3) × 1000	7000	**2**	M1 (4 + 3) ×1000 A1 cao
(b)	(? + 3) × 1000 = 12 000 or 12 000 ÷ 1000	9	**2**	M1 e.g for $\frac{12000}{1000}$ or 12 seen A1 cao
21	9 + 6 + 15 + 12 = 42	2.1	**3**	M1 for completing third column or showing goals × frequency B1 for 42 ÷20 A1 cao
22		Correct drawing	**2**	B2 for correct 3-D space Condone hidden detail shown with solid lines. (B1 for 1 sketch correct with other sketches incorrect cross-section correct with depths > 1 cube correct plan and side elevation)

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23 (a) **(b)** **(c)**		Points plotted Positive 22<answer<32	**1** **1** **2**	B1 ± 1 full mark (2 mm square) B1 cao B2 ft from a single line segment with positive gradient ± 1 full (2 mm) square [B1 lobf must pass through (5, 5) (5, 15) and (55, 35) and (55, 45)]
24 (a)	eg $100\times\frac{2500}{1000}$	250	**2**	M1 $\frac{2500}{1000}$ oe seen or 100 + 100 + 50 A1 cao
(b)	eg $800\times\frac{1500}{1000}$	1200	**2**	M1 $\frac{1500}{1000}$ oe seen or 800 + 400 A1 cao
25		question + response boxes oe	**2**	1st aspect: one question with time period (eg each day); ignore other questions 2nd aspect: response list (at least two), no overlapping 3rd aspect: some mention of units (eg hours or number of pieces) in either question or responses Award B2 for all these aspects, or B1 for just two aspects
26 (i) **(ii)**		7^7 7^6	**2**	B1 accept 7^{3+4}, 823543 B1 accept 7^{11-5}, 117649

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27 **(a)**	$9-2x=3x+6$ $9-6=3x+2x$ $3=5x$	$\frac{3}{5}$	**3**	B1 for $3x+6$ seen OR $3-\frac{2}{3}x=x+2$ M1 for correct rearrangement of 4 terms or $3=5x$ A1 for $\frac{3}{5}$ oe
(b)		$-3,-2,-1,0,1$	**2**	B2 (B1 for 4 correct integers OR not more than one incorrect integer or omissions)
28	$(4\times3)\times11\div2$	66cm^3	**4**	M2 for $4\times3\times11\div2$ (M1 for any three of these) A1 cao numerical answer of 66 B1 (indep) cm^3 with or without any numerical answer