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

	Questions		Working	Answer	Mark	Notes
6	(a)			millilitres, m*l*, cm³	3	B1 oe
				cc		
				centimetres, cm		B1 oe
				grams, g		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

Questions	Working	Answer	Mark	Notes
8	437 24 1748 8740 10488 or 24 437 168 720 9600 10488 or (lattice/grid multiplication 437 × 24 giving 10488)	10488	**3**	M2 for complete method, allow one arithmetic error (M1 for complete method, allow two arithmetic errors) A1 cao
9 **(a)** **(b)**	 2.40 + 0.40	1.60 2.80	**1** **2**	B1 cao, could be indicated on the diagram 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

Questions		Working	Answer	Mark	Notes
10	**(a)**		17, 83, 91, 109, 140 − 8, − 4, − 2, 1, 4	**1**	B1 cao
	(b)		$0.6, \dfrac{2}{3}, 70\ \%, \dfrac{3}{4}$	**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)**	$\dfrac{60}{100}$	$\dfrac{3}{5}$	**1**	B2 cao (B1 for $\dfrac{60}{100}$ or $\dfrac{30}{50}$ or $\dfrac{15}{25}$ or $\dfrac{12}{20}$ or $\dfrac{6}{10}$) SC B1 for 0.6
	(b)		45	**1**	B1 cao

Questions			Working	Answer	Mark	Notes
13	**(a)**		France 卌 5 Spain 卌卂 7 Italy IIII 4 England IIII 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)**	$83.40 \div 10$	8.34(0)	**2**	M1 for $83.4 \div 10$ 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 $5.5 <$ area ≤ 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			$80 \times \dfrac{4}{5}$	64	**2**	M1 80×4 or 320 seen or $80 \div 5$ or 16 seen A1 cao

Questions			Working	Answer	Mark	Notes
19	(a)	(i) (ii)		60 eg left triangle is equilateral	2	B1 cao B1 for reason
	(b)		"60" + 90	150	2	M1 for $\dfrac{180-"60"}{2} + 90$ A1 ft from a(i) if $x < 90$ SC: B1 for answer from "60" + 90 if $x < 90$
20	(a)		$(4 + 3) \times 1000$	7000	2	M1 $(4 + 3) \times 1000$ A1 cao
	(b)		$(? + 3) \times 1000 = 12\ 000$ or 12 000 ÷ 1000	9	2	M1 e.g for $\dfrac{12000}{1000}$ 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)

Questions		Working	Answer	Mark	Notes
23	**(a)** **(b)** **(c)**		Points plotted Positive 22<answer<32	1 1 2	B1 $\pm$ 1 full mark (2 mm square) B1 cao B2 ft from a single line segment with positive gradient $\pm$ 1 full (2 mm) square [B1 lobf must pass through (5, 5) (5, 15) and (55, 35) and (55, 45)]
24	**(a)** **(b)**	eg $100 \times \dfrac{2500}{1000}$ eg $800 \times \dfrac{1500}{1000}$	250 1200	2 2	M1 $\dfrac{2500}{1000}$ oe seen or $100 + 100 + 50$ A1 cao M1 $\dfrac{1500}{1000}$ 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

Questions	Working	Answer	Mark	Notes
27 **(a)**	$9 - 2x = 3x + 6$ $9 - 6 = 3x + 2x$ $3 = 5x$	$\dfrac{3}{5}$	**3**	B1 for $3x + 6$ seen OR $3 - \dfrac{2}{3}x = x + 2$ M1 for correct rearrangement of 4 terms or $3 = 5x$ A1 for $\dfrac{3}{5}$ oe
(b)		$-3, -2, -1, 0, 1$	**2**	B2 (B1 for 4 correct integers OR not more than one incorrect integer or omissions)
28	$(4 \times 3) \times 11 \div 2$	66cm^3	**4**	M2 for $4 \times 3 \times 11 \div 2$ (M1 for any three of these) A1 cao numerical answer of 66 B1 (indep) cm^3 with or without any numerical answer