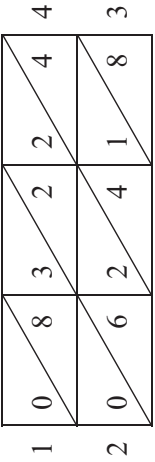


No	Working	Answer	Mark	Notes
1		17252 5400 thousands, 1000, 4000	1 1 1	B1 cao B1 cao B1
2		grams, g centimetres, cm millilitres, ml, cm ³ 5	3 1	B1 oe spelling B1 oe spelling B1 oe spelling B1 cao
3		106, 102 eg take away 4 46	1 1 1	B1 cao ignore extras B1 could be indicated on the diagram B1 cao

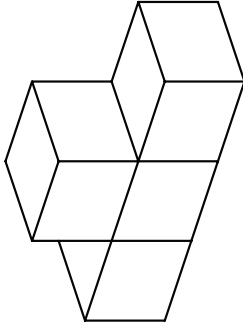
No	Working	Answer	Mark	Notes															
4	$\begin{array}{r} 286 \\ 43 \\ \hline 858 \\ 11440 \\ \hline 12298 \end{array}$ $\begin{array}{r} 43 \\ 286 \\ \hline 258 \\ 3440 \\ \hline 8600 \\ 12298 \end{array}$ $286 \times 40 = 1140$ $286 \times 3 = 858$ $1140 + 858 = 12298$ <table border="1" data-bbox="501 1552 703 1991"> <tr> <td>x</td> <td>40</td> <td>3</td> </tr> <tr> <td>200</td> <td>8000</td> <td>600</td> </tr> <tr> <td>80</td> <td>3200</td> <td>240</td> </tr> <tr> <td>6</td> <td>240</td> <td>18</td> </tr> <tr> <td></td> <td></td> <td>12298</td> </tr> </table> 	x	40	3	200	8000	600	80	3200	240	6	240	18			12298	12298	3	<p>M2 for complete correct method (condone one computational error) (M1 for complete correct method with two computational errors) A1 cao</p> <p>OR</p> <p>B2 inside of grid completed (condone missing zeros and one error) (B1 2 or 3 errors) B1 cao</p>
x	40	3																	
200	8000	600																	
80	3200	240																	
6	240	18																	
		12298																	
5	<p>(a)</p> <p>(b)(i)</p> <p>(ii)</p> <p>(c)</p> <p>(d)(i)</p> <p>(ii)</p> <p>(iii)</p>	<p>18, 69</p> <p>18 or 36</p> <p>16 or 36</p> <p>factor</p> <p>18</p> <p>11 or 88</p> <p>69</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>3</p>	<p>B1</p> <p>B1</p> <p>B1</p> <p>B1</p> <p>B1 cao</p> <p>B1</p> <p>B1 cao</p>															

No	Working	Answer	Mark	Notes
6		April & May Daffodil Feb Crocus $\frac{1}{5}$ $\frac{1}{5}$ × from 56 mm to 64 mm from 0	1 1 1 1 2	B1 for both B1 B1 B1 B1 for $\frac{1}{5}$ oe B1 A single mark on the line, between 56 mm and 64 mm measured from end 0
7	$\frac{40}{100}$	$\frac{2}{5}$ $\frac{2}{5}$ 0.98 7 500 000 25 60	2 1 1 1 1	B2 for $\frac{2}{5}$ B1 for $\frac{40}{100}$ or $\frac{4}{10}$ or $\frac{20}{50}$ or $\frac{8}{20}$

No	Working	Answer	Mark	Notes
8		(0, 2) (4, 1) (2, 1½) marked	2 1	B1 cao B1 cao B1 Allow 2mm tolerance from (2, 1½)
9	1.60 + 0.40 1 ÷ 0.8 or 2.50 ÷ 2	2.40 2.00 1.25	1 2 2	B1 cao could be indicated on the diagram M1 for appropriate sum or product in £ or p or 200 seen eg 1.60 + 0.40, 160 + 40, 0.80 + 0.80 + 0.40, 80 + 80 + 40, 0.08 × 25, 0.80 × 2.5, 200 A1 cao M1 for 1.00 ÷ 0.8 or 2.50 ÷ 2 or 125 or appropriate combination eg $1 + \frac{1}{2} \times 0.50$ A1 cao
10		hexagon Sum of angles at a point is 360° 136	1 2 2	B1 Condone spelling error B1 for 360 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 an angle, other than x , is 90° or a right angle (may be on diagram) M1 $30 \times 4 + 8 \times 2$ or attempt to sum 5 or 6 lengths A1 cao

Paper 5521/01		Working		Mark	Notes
No		Answer			
11	(a)	13, 67, 76, 103, 130		5	B1 cao
	(b)	-7, -3, -1, 0, 5			B1 cao
	(c)	0.07, 0.072, 0.7, 0.702, 0.72			B1 cao
	(d)	0.6, $\frac{2}{3}$, 70%, $\frac{3}{4}$			B2 (B1 for any 3 in correct order)
12	(a)	16 30		1	B1 Accept 4 30 pm Do not accept 4 30
	(b)(i)	8.39	33.56 ÷ 4 oe	3	M1 for 33.56 ÷ 4 oe eg 3356 ÷ 4, division by 2 twice A1 cao
	(ii)	9			B1 ft from "8.39" unless whole number of pounds
13	(a)	6 cm ²		3	B2 for 6 cao for numerical answer (B1 for 5.5 < Area ≤ 7) then B1 (indep) for cm ² with or without numerical answer B2 (B1 for any 2 sides correct or a correct enlargement scale factor ≠ 1 or 2)
	(b)	Correct shape	See diagram	2	

Paper 5521/01		Working	Answer	Mark	Notes
No					
14	(a)	$(4 + 3) \times 10$	70	2	M1 for $(4 + 3) \times 10$ A1 cao
	(b)	$120 \div 10 - 3$	9	2	M1 for $\frac{120}{10}$ or 12 seen eg $12 \times 10 = 120$ A1 cao
	(c)		$C = 10(n + 3)$	3	B3 for $C = 10(n+3)$ oe such as $C = (n + 3) \times 10$ (B2 for correct RHS or $C = n + 3 \times 10$, $C = 10n + 3$ oe B1 for $C =$ some other linear expression in n or for $n + 3 \times 10$, $10n + 3$ etc) Note: $C = n$ scores no marks
15			11 13 16 8 21	2	B2 all correct (B1 for 2 correct)

No	Working	Answer	Mark	Notes
16		$2p + 4q$ $2y^2$ $3c + 4d$ $8pq$	<p>2</p> <p>1</p> <p>2</p> <p>1</p>	<p>B2 for $2p + 4q$ (accept $2 \times p$ etc) (B1 for $2p$ or $4q$)</p> <p>B1 accept $2 \times y^2$ oe inc $2 \times y \times y$</p> <p>B2 for $3c + 4d$ (accept $3 \times c$ etc) (B1 for $3c$ or $4d$)</p> <p>B1 accept in any order but must not include \times sign</p>
17		<p>60</p> <p>eg top triangle is equilateral</p> <p>150</p>	<p>2</p> <p>2</p>	<p>B1 cao</p> <p>B1 for reason</p> <p>M1 for $\frac{180 - "60"}{2} + 90$</p> <p>A1 ft from (a)(i) if $x < 90$</p> <p>SC B1 for "60" + 90 if $x < 90$</p>
18		40	2	<p>M1 for 60×2 or $120 \div 3$ or 20 or $\frac{120}{180}$</p> <p>A1 cao</p>
19		correct drawing	2	<p>B2 Condone hidden detail shown with solid lines and missing lines on front face</p> <p>(B1 for a correct sketch with other incorrect sketch(es) or for prism with correct cross section > 1 cube wide or for attempt to draw prism with correct cross section or prism with correct plan and side elevation)</p>

No	Working	Answer	Mark	Notes
20	$\frac{600}{3 \times 10}$ or $\frac{640}{3.2 \times 10}$	$20 - 21\frac{1}{3}$	2	M1 for rounding at least two of the numbers to 1 sf or for sight of 640, 3.2 or 640, 32 or 600, 32 or 30 seen A1 for $20 - 21\frac{1}{3}$ Note: 20.3125 scores M0 A0
21		Points plotted positive Line of best fit ~ 1.65	1 1 1 1	B1 ± 1 full (2 mm) square B1 cao B1 Must pass through (42.5, 1.45), (42.5, 1.55) AND (67.5, 1.75), (67.5, 1.85) B1 ft from single line segment with positive gradient ± 1 full (2 mm) square
22		200 600	2 2	M1 for $\frac{2000}{500}$ or 4 seen A1 cao M1 for $\frac{750}{500}$ or 1.5 seen or $400 + 200$ A1 cao

No	Working	Answer	Mark	Notes
23 (a)	$4 \times 3 - 2 \times 1$ $12 - 2$	10	3	M1 for $3 \times 4 (=12)$ or 1×2 or attempt to divide diagram up into rectangles M1 “12” – “2” or sum of areas of rectangles A1 cao
(b)(i)	$\frac{10}{100} \times 680 \text{ or } 680 \div 10$ $680 + 68$	748	5	M1 $\frac{10}{100} \times 680$ or $680 \div 10$ or 68 seen M1 (dep) 680 + “68” or M2 for 680×1.10 A1 cao
(ii)	$“748” \div 50 \text{ or } 14.96$	15		M1 For “748” $\div 50$ or 14.96 Accept “748” rounded up or down to next 50 followed by $\div 50$ A1 ft from (b)(i) rounded up SC B1 for 680 (seen) leading to 14