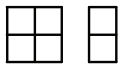
5540F/1F					
Question		**Working**	**Answer**	**Mark**	**Notes**
1	(a) (b) (c)		3000 4681 "five thousand and sixty"	1 1 1	B1 for 3000 cao B1 for 4681 cao B1 for "five thousand and sixty"
2	(a) (b)		8 cm or 80mm Midpoint	2 1	B1 for 7.8 – 8.2 or 78 – 82 B1 for appropriate unit cm or mm B1 for midpoint marked ± 2mm
3	(a) (b) (c)		16 26 	1 1 1	B1 for 16 cao B1 for 26 cao B1 for one box with 4 divisions and 2 small boxes.
4	(a) (b)		6, 17, 24, 168 0.5, 1.8, 3.71, 12.4	1 1	B1 for 6, 17, 24, 168 cao B1 for 0.5, 1.8, 3.71, 12.4
5		$\frac{60}{2}\times 5=$	1.50	3	M2 for $\frac{60}{2}\times 5$ oe OR 150 seen [M1 for $\frac{60}{2}$ OR 30 seen OR 60 x 5 OR 300 seen OR 0.6 x 5 OR 3 seen] A1 for 1.50 Accept 1.5 or 150p with £ crossed out
6	(a) (b)(i) (ii)		162 York Leeds	1 2	B1 for 162 cao B1 for "York" cao B1 for "Leeds" cao

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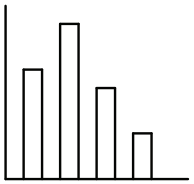
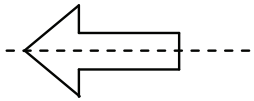
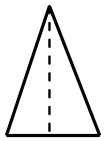
Question		**Working**	**Answer**	**Mark**	**Notes**
7	(a)(i)		(1, 4)	2	B1 for (1, 4) cao
	(ii)		(4, 0)		B1 for (4, 0) cao
	(b)(i)		*P* marked at (3, 2)	2	B1 for *P* marked at (3, 2)
	(ii)		*Q* marked at (–4,3)		B1 for *Q* marked at (–4,3)
8	(a)		Bars drawn at heights 8, 5 and 3	2	B2 for 3 bars drawn correctly (B1 for one bar drawn correctly)
	(b)		Blue	1	B1 ft for "blue" (ft from table or their bar chart)
9	(a)			1	B1 for completed shape cao
	(b)			1	B1 for line of symmetry drawn
10	(i)	9 – 5	4	3	B1 for 4 cao
	(ii)	20 ÷ 10	2		B1 for 2 cao
	(iii)	7 + 2	9		B1 for 9 cao

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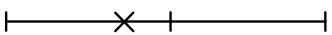
Question		**Working**	**Answer**	**Mark**	**Notes**
11	(a)		$\frac{2}{5}$ Reason	2	B1 for $\frac{2}{5}$ B1 for correct reason. Eg "$\frac{2}{5}$ does not cancel to $\frac{1}{2}$" or "$\frac{2}{5}$ is 0.4" or "$\frac{2}{5}$ is less than $\frac{1}{2}$" or the top is even and the bottom is odd" oe
	(b)	$3 \times (20 \div 4)$	15	2	M1 for $3 \times (20 \div 4)$ or 5 seen provided it is not followed by incorrect working. A1 for 15 cao
12	(a)	3×6	18	1	B1 for 18 cao
	(b)	$2 \times 3 + 2$	8	2	M1 for $2 \times 3 + 2$ A1 for 8 cao
13	(a)		metres (m) grams (g) litres (l)	3	B3 all correct (B1 for each one correct) accept abbreviations Accept abbreviations
	(b)	4×100	400	1	B1 for 400 cao
	(c)	$1500 \div 1000$	1.5	1	B1 for 1.5 cao
14	(a)		B 	1	B1 for B marked on line $0.25 \leq B < 0.5$
	(b)		(g, t), (y, h), (y, t) (b, h), (b, t)	2	B2 for 5 correct pairs. (B1 for 2 or more correct pairs)

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Question		**Working**	**Answer**	**Mark**	**Notes**
15	(a)(i)	180 – 45	135	2	B1 for 135 cao
	(ii)		Reason		B1 for "angles on a straight line add to 180°"
	(b)	180 – (80 + 60)	40	2	M1 for 180 – (80 + 60) A1 for 40 cao
16	(a)		0.92	1	B1 for 0.92 cao
	(b)		$\frac{3}{100}$	1	B1 for $\frac{3}{100}$ cao
	(c)	$\frac{5}{100}\times 400$	20	2	M1 for $\frac{5}{100}\times 400$ oe A1 for 20 cao
17	(a)		130	1	B1 for 128 – 132
	(b)	6 × 50	300	2	B2 for 290 – 310 (B1 for 6 ± 0.2 cm seen or for *d* x 50)
	(c)		Point C marked	2	B1 for BC = 7 ± 0.2 cm B1 for bearing = 60° ± 2°
18	(a)		(–8), –5, (–2), 1, 4, 7	2	B2 for all 4 values (B1 for any 2 correct)
	(b)	Points + line	Correct line	2	B2 cao for correct line between x = -3 and x = 2 (B1 ft for plotting 4 points correctly or for a line with gradient 3 or for a line passing through (0,1))

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Question		**Working**	**Answer**	**Mark**	**Notes**
19		540 24 2160 10800 12960	129.6(0)	3	M1 for a complete method with relative place value correct. Condone 1 multiplication error, addition not necessary. **OR** M1 for a complete grid. Condone 1 multiplication error, addition not necessary. **OR** M1 for sight of a complete partitioning method, condone 1 multiplication error. Final addition not necessary. A1 for 129.6(0) cao A1 (dep on M1, but not previous A1) for correct placement of decimal point.

	5	**4**	**0**	
1	1 \ 0	8	0	**2**
2	2 \ 0	1 \ 6	0	**4**
	9	6	0	

	500	**40**	**0**
20	10000	800	0
4	2000	160	0

10000 + 2000 + 800 160 = 12960

3	**0.1**	**0.05**	
60	2	1	**20**
12	0.4	0.2	**4**

100 + 20 + 8 + 1.6 = 129.6

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Question		**Working**	**Answer**	**Mark**	**Notes**
20	(a)	$\frac{4}{12}+\frac{1}{12}$	$\frac{5}{12}$	2	M1 for $\frac{4}{12}$ or for attempting to use a suitable common denominator, at least one of the two fractions correct. A1 for $\frac{5}{12}$ oe **OR** Attempt to use decimals, must use atleast 2 d.p. M1 for 0.33(…) + 0.08(…) A1 for 0.416(recurring)
	(b)	$\frac{3\times1}{4\times5}$	$\frac{3}{20}$	1	B1 for $\frac{3}{20}$ oe
21	(a)		$5d$	1	B1 for $5d$ or $5 \times d$
	(b)		$2y^2$	1	B1 for $2y^2$ or $2 \times y^2$
	(c)	$4\times3a-4\times7$	$12a-28$	2	M1 for $4\times3a$ or 4×7 A1 for $12a-28$ cao
	(d)		t^3	1	B1 for t^3 (accept t^{1+2} oe)
	(e)		m^2	1	B1 for m^2 (accept m^{5-3} oe)

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Question		**Working**	**Answer**	**Mark**	**Notes**
22	(a)		2 | 378 3 | 1456 4 | 12455 5 | 023	3	M1 for using 2, 3, 4 and 5 as stem A1 for ordered stem and leaf diagram (condone one error)
			2 | 3 = 23		B1 for key, e.g. 2 | 3 represents/means/= 23 (years)
	(b)		$\frac{8}{15}$	2	B2 ft for $\frac{'8'}{15}$ (ft from stem and leaf diagram) (B1 $\frac{'8'}{a}$, $a >$ '8', or $\frac{b}{15}$, $b < 15$)
23	(a)	$300 \div 25$	12	2	M1 for $25 + 25 + 25 + ...$ or "3" $\div 25$ A1 for 12 cao
	(b)		$3x$	1	B1 for $3x$ or $3 \times x$
	(c)		$x + 5$	1	B1 for $x + 5$ cao
24		$\frac{1}{2}(3\times4)\times2$ $+(3\times7)+(4\times7)+(5\times7)=$ $12 + 21 + 28 + 35$	96	3	M1 for $\frac{1}{2}(3\times4)$ or 3×7 or 5×7 or 4×7 M1 for attempt to add 5 faces A1 for 96 cao
25	(a)		1632	1	B1 for 1632 cao
	(b)		16.32	1	B1 for 16.32 cao
	(c)		3.4	1	B1 for 3.4 cao

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Question		**Working**	**Answer**	**Mark**	**Notes**
26		$\frac{300\times10}{0.5}=\frac{3000}{0.5}$	6000	3	M1 for any two of 300, 10 or 0.5 M1 for $\frac{3000}{0.5}$ or 300 × 20 or 600 × 10 A1 6000 cao
27			Correct drawing	2	M1 for constructing arcs from each of the ends of the given line. A1 for a correct triangle, with arcs within guidelines. SC: B1 for a triangle drawn within guidelines if M0 scored.
28			–2, –1, 0, 1, 2	2	B2 for –2, –1, 0, 1, 2 cao (B1 for 4 correct and not more than one incorrect integer or all 5 correct and not more than one extra incorrect integer)
29	(a)	Triangle A	Triangle with vertices (-1,5), (-1,3), (3,3)	2	B2 for triangle with vertices (–1, 5), (–1, 3), (3, 3) (B1 for triangle with correct orientation)
	(b)	Triangle B	Triangle with vertices (1,-2), (5,-2), (5,-4)	1	B1 for triangle with vertices (1, –2), (5, –2), (5, –4)
	(c)	Triangle C	Triangle with vertices (1,1.5), (2,4), (1,4)	2	B2 for triangle with vertices (1, 1.5), (2, 4), (1, 4) (B1 for any two of the vertices (1, 1.5), (2, 4), (1, 4))