

Paper 1MA1: 3F			
Question	Working	Answer	Notes
1		6000	B1 cao
2		5.25	B1 cao
3		8	B1 cao
4i		12	B1 cao
ii		2 or 5	B1
5		1.75l or 1750 ml	B1 for knowledge of 1 litre is 1000 millilitres P1 for adding their two amounts C1 for 1.75l or 1750 ml (must include units)
6(a)		8	B1 8 $\pm$ 2mm
6(b)		35	B1 35 $\pm$ 2°
7(a)		5	B1 cao
7(b)		12	B1 cao
7(c)		d^5	B1
8		Statement	C1 for a full explanation
9		-16, 32	P1 for $48 \div 6$ P1 for a complete process to find either A or B A1

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10		38 15	B1 cao P1 $(47-2) \div 3$ A1 cao
11(a)		7	B1 cao
11(b)		256	B1 cao
12		Yes with evidence	C1 for writing down at least two squares numbers P1 for adding square numbers A1 cao with supporting evidence
13		- 4 and -10	M1 for repeated subtraction of 6 oe A1 - 4 A1 -10
14(a)		Angle marked	B1 cao
14(b)		Face shaded	B1 cao
14(c)		12	B1 cao
15		2	P1 for correct process to find fibre for 400g P1 for a complete process to find the fibre per slice A1 cao
16 (i)		3 options shown	C1 Diagram with decreased perimeter drawn
(ii)			C1 Diagram with same perimeter drawn
(iii)			C1 Diagram with increased perimeter drawn

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17(a)		70, 40 and 55	P1 for a method to find one of angles eg $(180 - 70) \div 2$ or 70 stated as the equal or $180 - 2 \times 70$ P1 for a method to find a angle A1 for 70, 40 and 55 (any order)
17(b)		Explanation	C1 Explanation eg only one option once an obtuse angle given
18(a)		1:1.5	M1 for 40:(100-40) A1 cao
18(b)		$\frac{3}{4}$	B1
19	$3.69 \times 2 = 7.38$	19	P1 for 7.38 repeatedly added at least 6 times OR $50 \div 7.38$ P1 for $6 \times 7.38 + 3.69$ A1 19 boxes
20		Venn diagram	M1 for two overlapping and labelled ovals M1 for 2 and 6 in the intersection M1 for 5 and 7 in the universal set only C1 for a fully correct Venn Diagram

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21(a)		(4,10)	B1 cao
21(b)(i)		Line drawn	B1 Straight line drawn passing between (2,20) and (2,30) AND (13,86) and (13,94)
(ii)		Positive	C1 positive
21(c)		Value between 60 and 70	C1 a correct value given
21(d)		Statement	C1 for referring to the danger of extrapolation outside the given range or for a given point Eg line of best fit may not continue or full marks are hard to achieve no matter how much revision is done
22		$12.5 \leq L < 13.5$	B1 12.5 B1 13.5
23		$y = 2x + 1$	M1 for a method to find the gradient M1 for a method to find the c in $y = mx + c$ A1 $y = 2x + 1$ oe in this format
24(a)	$(720+408+304+252) \div 50$	33.68	M1 for finding 4 products fw consistently within interval (including end points) M1 (dep on 1st M) for ' Σfw ' $\div 50$ A1 cao
24(b)		Manager with reasons	M1 for strategy to compare number of small size sold to number ordered C1 clear comparison that small size is not $\frac{3}{4}$ and so Jenny is not correct or the manager is correct

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25(a)	160 tiles 18 packs	18	M1 a full method to find the area of the trapezium M1 a full method to convert all areas to consistent units M1 for the area of the trapezium $\div$ area of a tile M1 for communication of the number of whole packs required A1
25(b)	176 tiles 20 packs	Supported statement	P1 finding that 10% extra requires two more packs or 10% of 18 C1 Statement eg. increase in packs is 2 more which is more than 10%
26		$(x - 1)(x + 4)$	M1 $(x \pm 1)(x \pm 4)$ A1 $(x - 1)(x + 4)$ oe
27		A and D	C1 in any order
28		1.0625	P1 for a complete process to find the density of liquid A P1 for a complete process to find the mass of liquid C P1 for a complete process to find the density of liquid C A1 cao