

Paper 1MA1: 2F			
Question	Working	Answer	Notes
1		7000	B1 cao
2		-5°C, -2°C, 3°C, 7°C, 10°C	B1 correct order
3		$\frac{3}{40}$	M1 $\frac{75}{1000}$ oe A1
4		625	B1 cao
5	720 000 ÷ 3	240 000	P1 for division by 3 A1 cao
6 (a) (b)		1 hr 4 mins No + explanation	B1 cao B1 for no + explanation, eg the 0717 from Swindon takes less than one hour

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7	$2 \times £1.10 (= £2.20)$ $3 \times £0.95 (= £2.85)$ $5 \times £2.15 (= £10.75)$ $£2.20 + £2.85 + £10.75$ $£15.80 \div 5$	3.16	P1 P1 P1 A1	for process of working out total cost of coffees or teas or sandwiches in pence or pounds for process of finding total cost using consistent units for process of dividing by 5 cao
8 (a) (b) (c)		Banana 20 explanation	B1 B1 C2	cao cao for full explanation, eg table shows exactly $\frac{1}{2}$; pie chart shows less than $\frac{1}{2}$ as angle is less than 180° (C1 for partial explanation or reference to just pie chart or just table)
9		No + explanation	C1	No, with explanation, eg the angle will still be 25°
10 (a) (b) (c)		6.4 – 6.6 9.8 5, 9	B1 B1 B1	for $6.4 - 6.6$ for $9.75 - 9.85$ cao

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11 (a) (b) (c)		rule stated	C1	for rule stated, eg number doubles
		32	B1	cao
		22, 29	B1	cao
12		0.8	P1 P1 A1	for process to find amount of soup put in bowls, eg 24×0.3 or amount of soup when 8 pints are shared between 24 bowls, eg $24 \div 8$ for complete process to find amount of soup left over
13		46	M1 M1 A1	for process to find value after 1 year for process to find value after 4 years cao
14		3p	M1 A1	for method to find gradient of line for 3p oe

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15 (a)		10	P1	for process to find number of people that Ellie can make mousse for using the sugar available
		correct explanation	P1 A1	for process to find number of people that Ellie can make mousse for using the chocolate available for correct answer with supportive working
16		8	B1	cao
17 (a) (b) (c)		4x + 6y	M1	for 4x or 6y
		5(2x - 3)	A1 B1	for 4x + 6y or 2(2x + 3y) cao
		4	M1 A1	for method to isolate terms in p on one side and constants on the other side cao
18		3 : 4	M1 M1 A1	for 32 - 8 (= 24) (dep) for "24" : 32 cao

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19 (a) (bi) (bii)		Table complete	B1	cao
		$\frac{1}{10}$	B1	for $\frac{1}{10}$ oe or ft from table
		$\frac{7}{10}$	B1	for $\frac{7}{10}$ oe or ft from table
20		1.52	M1 A1	for $20 \times 4.55 \div 60$ for 1.52 or 1.516(....)
21		8	M1 A1	for finding the HCF of any two of the three numbers or for 2^5 and 3×2^4 and $2^3 \times 3^2$ cao
22		Translation by $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$	B1 B1	for translation $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$

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23 (a) (bi) (bii)		Trend described 13 - 17 No + reason	C1 P1 A1 C1	for “percentage of people who use the shop decreases” oe for process to draw trend line on graph for 13 - 17 for comment, eg “no, because 2020 is beyond the time period covered by the given data”
		$13y - 1$	M1 A1	for expansion of one bracket for full simplification
		$35u^3w^7$	B1 B1	for 2 of 35, u^3 and w^7 correct cao
25		105	P1 P1 A1	for process to find the exterior angle or interior angle of a hexagon or octagon for process to find the both exterior angles or both interior angles for 105 from correct working

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26 (a)(i) (ii) (b)		10, 12, 14, 15, 16, 18 12, 18 $\frac{7}{10}$	B1 B1 M1	cao cao for 7 or indicating correct region or for 10, 14, 16, 11, 13, 17, 19 listed
			A1	for $\frac{7}{10}$ oe
27	$6 : 5 = 12 : 10$ $2 : 1 = 10 : 5$ $C : S : P = 12 : 10 : 5$ $\frac{10}{27} \times 189$	70	P1 P1 A1	for strategy to start to solve the problem eg 12 : 10 and 10: 5 for process to solve the problem eg $\frac{10}{27} \times 189$ cao
28	$\frac{1}{4} \times \pi \times 4.8^2$ $\frac{1}{2} \times 4.8 \times 4.8$ $\frac{1}{4} \times \pi \times 4.8^2 - \frac{1}{2} \times 4.8 \times 4.8$	6.58	B1 P1 A1	for use of formula for area of a circle for complete process to find area of shaded region for $6.56 - 6.58$

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29	$\angle ADB = 72^\circ$ (base angles of isosceles triangle ABD) $\angle BAD = 180^\circ - 2 \times 72^\circ$ (angle sum of a triangle is 180°) $\angle BCA = 36^\circ$ (base angles of isosceles triangle ABC) $\angle BDC = 180^\circ - 72^\circ$ (angles on a straight line sum to 180°) $\angle DBC = 180^\circ - 36^\circ - 108^\circ$ (angle sum of a triangle is 180°)	Result shown	M1 for $\angle ADB = 72^\circ$ and $\angle BAD = 180^\circ - 2 \times 72^\circ$ M1 for $\angle BCA = "36^\circ"$ M1 for $\angle BDC = 180^\circ - 72^\circ$ C1 for complete chain of reasoning to find angle $DBC = 36^\circ$ and one correct reason C1 dependent on all previous marks for correct deduction and full reasons.