Paper 1MA1: 2F	1: 2F			
Question	Working	Answer		Notes
1		99.9	B1	cao
2		0.4375	B1	cao
3		27 or 64	B1	cao
4		7.3225	M1	for 5.5225 or 1.8
			A1	cao
5		2/3	B1	0e
9		eg. 1, 2, 18	P1	Starts process eg. Lists at least 2 multiples from 9,18,27,36,45 or lists at least 2 factors from 1, 2, 4, 5, 8, 10, 20, 40
			P1	Continues process eg. gives a set of numbers whose sum is greater than 20 but less than 30 but numbers may not all be appropriate factors/multiples
			A1	Gives 3 numbers that meet all the criteria

Paper 1MA1: 2F	: 2F			
Question	Working	Answer		Notes
7		$\frac{53}{64}$	P1	for interpreting information e.g. recognising that the shaded area = $\frac{3}{4} + \left(\frac{1}{4} \times \frac{1}{4}\right) + \left(\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}\right)$ or adding in lines to diagram to show
			A1	64ths cao
∞			C1	Any one correct statement eg. No key, y axis label, 4 missing on y axis
			C1	Any 2 nd correct statement
			C1	Any 3 rd correct statement
6		13	M1	Puts numbers in order or clear attempt to find 5^{th} number or $(9 + 1)/2$ or selects 11
			A1	
10 (a)		p+c	B1	
(q)		41 / ,	M1	adds 5 to both sides of equation
		n	A1	oe
11 (a)		eg. $2 \times 5 = 10$	B1	example given
(b)		explanation	P1	two prime numbers identified
			C1	conclusion which also shows at least one calculation with prime numbers or identifies one of the prime numbers as 2.

Paper 1MA1: 2F	1: 2F			
Question	Working	Answer		Notes
12 (a)		graph	C1	introduce a scale for the y axis
			C1	plots at least 2 points correctly
			C1	fully correct and complete graph
(p)		15 miles	M1	reads off graph eg 20 km = 12-13 miles or 15 miles = 24 km or
		(supported)	C1	uses table states 15 miles (24 km) with appropriate evidence
13		shown	B1	ABC = 80
			M1	$180 - 80^{\circ} - 50^{\circ}$
			A1	ACB = 50
			C1	statement that since $ACB = CAB = 50^{\circ}$ with reasons eg <u>Vertically</u> opposite angles are equal, <u>Angles</u> in a triangle add up to 180° , The exterior angle of a triangle is equal to the sum of the interior
				opposite angles; base <u>angles</u> of an <u>isosceles</u> triangle are <u>equal.</u>
14		13.9	P1	finds the volume of a cuboid eg $50\times40\times60$ (=120000)
			P1	finds 35% of the oil from the cuboid eg 120000×0.35 oe (=42000)
			P1	removes 35% of oil from cuboid eg 120000 – 42000 (=78000)
			P1	division to find missing side length eg 78000÷(80×70) or 13.928
			A1	for answer to an appropriate degree of accuracy eg (13.9 or 14 or 10)

Paper 1MA1: 2F				
Question	Working	Answer		Notes
		22.5	M1	interpret information eg use the scale
			A1	
		12	M1	Starts to list factors of writes at least one number in terms of prime factors or identifies a common factor other than 1
			A1	cao
	£ per kg: $1.89 \div 2 = 0.945 (94.5);$ $4.30 \div 5 = 0.86 (86);$ $8.46 \div 9 = 0.94 (94)$	5 kg (supported)	P1	for a process (for at least two boxes) of division of price by quantity or division of quantity by price or a complete method to find price of same quantity or to find quantity of same price
	kg per £: $2 \div 1.89 = 1.058(2)$; $5 \div 4.30 = 1.162(79)$;		P1	for a complete process to give values that can be used for comparison of all 3 boxes
	$9 \div 8.46 = 1.0638(297)$ Price per 90 kg: $1.89 \times 45 = 85.05$; $4.30 \times 18 = 77.4(0)$; $8.46 \times 10 = 84.6(0)$		CI	for 5 kg and correct values that can be used for comparison for all 3 boxes and a comparison of their values
		11	M1	process of substitution demonstrated eg $5\times3+2\times-2$
			A1	cao

Paper 1MA1: 2F	2F			
Question	Working	Answer		Notes
19		720	P1	attempt to find the maximum biscuits for one of the ingredients e.g. $5000 \div 15$ (=33.3) or $2500 \div 75$ (=33.3) or $3000 \div 100$ (=-
			P1	50) or 520 ± 10 (=52) for identifying butter as the limiting factor or 30×24 (=720) seen
			A1	
20 (a)		3(f+3)	B1	cao
(q)		(x-5)(x+3)	M1	for $(x \pm 5)(x \pm 3)$
			A1	cao
21		p=qr-sr	M1	for multiplying all 3 terms by r or isolating p/r term
			A1	0e
22 (a)		06	P1	for the process of finding an area eg 6×11 (=66)
			P1	(dep on area calculation) for the process of working out the number of tins eg " 66 " \div 12 (=5.5 or 6 tins)
			P1	for the process of working out the cost eg "6" tins × £15
			A1	cao
(b)		reason	C1	she might need to buy more tins

Paper 1MA1: 2F	1: 2F					
Question	Working	Answer			Notes	
23		96	P1	a strategy to start to so	a strategy to start to solve the problem eg 18 \div (7 -4) (=6)	÷ (7 –4) (=6)
			P1	for completing the pro	for completing the process of solution eg " 6 " × $(4 + 5 + 7)$	× (4 + 5 + 7)
			A1	ca0		
24		20.9	M	correct recall of appro	correct recall of appropriate formula eg $\sin x =$	$=\frac{5}{14}$
			A1	for 20.9(248)		
25 (a)		4n+2	M1	start to deduce nth terr $k \neq 2$	start to deduce nth term from information given eg $4n+k$ where $k\neq 2$	en eg 4 <i>n</i> + <i>k</i> where
			A1	cao		
(p)		No (supported)	M1	start to method that co operations for a convincing argun an integer	start to method that could lead to a deduction eg uses inverse operations for a convincing argument eg 34 is 107 so NO ; $(108-5) \div 3$ is not an integer	eg uses inverse); (108-5)÷3 is not
26		conclusion	P1	30 ÷ 70 (=0.428)	26 ÷ 60 (=0.4333)	30 ÷ 26 (=1.153)
		(supported)	P1	60 × "0.428"	70 × "0.4333"	60× "1.153"
			C1	for conclusion linked t	for conclusion linked to 25.7 mins, 30.3 miles or 69.2 mph	s or 69.2 mph

Paper 1MA1: 2F	: 2F			
Question	Working	Answer		Notes
27 (a)		$22 \le f < 24$	B1	
(p)		21.9	M1	$x \times f$ using midpoints
			M1	(dep on previous mark) " $x \times f$ " ÷ 40
			A1	accept 22 if working seen
28		9.54	P1	$10^2 - 5^2 (=75)$
			P1	$"75" + 4^2 (=91)$
			P1	$\sqrt{(10^2 - 5^2 + 4^2)}$
			A1	9.53 – 9.54
29		90.0	M1	for 0.2 and 0.3
			A1	cao