Paper 1MA	1: 1F			
Question	Working	Answer		Notes
1		5.3(0)	B1	cao
2		195	B1	cao
3		4.44	B1	cao
4		90	B1	cao
5		-27	B1	cao
6 (a)		5412	B2	(B1 for any 4-digit even number using 4,5,1,2 or 5421)
(b)		45, 54, 41, 14, 42, 24, 51, 15, 52, 25, 12, 21	P1	Starts to list systematically; at least 6 correct seen (ignore repeats)
			A1	Lists all 12 numbers (condone inclusion of all repeats 44, 55 etc)
7		chart	C1 C1 C1	for key or suitable labels to identify boys and girls for 4 correct sport labels or a linear scale for diagram or chart (combined or separate), correctly showing data for at least 3 sports for fully correct diagram or chart with axes correctly scaled and labelled
8 (a)		example	C1	for appropriate example shown
(b)		example	C1	conclusion

Paper 1MA	A1: 1F			
Question	Working	Answer		Notes
9		15561	M1 M1 A1	for complete method with relative place value correct (addition not necessary) for addition of all appropriate elements cao
10		No (supported)	P1 A1 C1	starts the process by converting one dimension converts at least one measurement conclusion eg No, since the 40 cm > 14 inches
11	(5) 3 (4) (12) 6 (7) 5 18 11 10 (9) (30)	table	C1 C1 C1	for at least 2 correct numbers for at least 4 correct numbers for completed table
12		1:3	M1 A1	for stating a ratio eg 28 : 84 or 1 : 3 incorrectly stated or 3:1 cao
13 (a)		drawing	C1	drawing of pattern number 4
(b)		42	C1 C1	shows a process of working towards pattern number 20 cao
(c)		n + 2	C1 C1	begins process of stating algebraic expression eg n $n+2$ oe

Paper 1MA1: 1F				
Question	Working	Answer		Notes
14 (a)		2000p- 2600p	P1	Evidence of estimate eg. 4 or 50 used in calculation
			P1 A1	complete process to solve problem 2000p-2600p or £20-£26
(b)		under	C1	underestimate as values have been rounded down
15		no with	P1	interprets the information and the scale eg in calculations or shown as part of a diagram eg 8m x 24m (=192) or 8 x 20 (=160)
		evidence	P1	a correct process to fit boards into the space in a logical way or $150 \times 1 \times 1.2$ (=180)
			C1	"no" with supportive evidence eg showing 160 needed or 180<192
16		32	M1 A1	for method to find area of any one rectangle cao
17		rotation	M1 A1	for triangle in correct orientation or rotation 90° anticlockwise cao
18		125	P1 P1 A1	for process to find 7/20 of 500 (=175) or 7/20 + 4/10 (=3/4) for process to find 40% of 500 (=200) or $\frac{1}{4} \times 500$ cao

Paper 1MA1: 1F				
Question	Working	Answer		Notes
19 (a)			P1	begins to work with figures eg finding $7 \times \frac{3}{4} (=5.25)$
			P1	works with integers eg 5.25 as 6 pints and 3×2 pints
		2.79	A1	cao
(b)		pay more	C1	deduces he may have to pay more [if he uses more than 0.857 pints a day]
20		42	P1	process to start problem solving eg forms an appropriate equation
			P1	complete process to solve equation
			A1	cao
21		4 m ²	C1	substitution into formula eg $35 = \frac{140}{A}$
			A1	4 (oe) stated
			C1	(indep) units stated eg m ²
22		0.22	P1	begins process of subtraction of probabilities from 1
			A1	oe
23		48	P1	begins to work with rectangle dimensions eg $l+w=7$ or $2\times l+w$ (=11)
			C1	shows a result for a dimension eg using <i>l</i> =4 or <i>w</i> =3
			P1	begins process of finding total area eg 4 × "3" × "4"
			A1	cao

Pap	er 1MA	1: 1F				
Que	estion	Working	Answer		Notes	
24			explanation	M1 M1 M1 M1 C1	works with volume eg 240000 uses conversion 1 litre = 1000 cm ³ uses 8000 eg vol ÷ 8000 (=30) uses "30" eg "30" × 2.50 for explanation and 75 stated	begins working back eg 70÷2.50 uses conversion 1 litre = 1000 cm ³ uses 8000 eg "28"× 8000 (=224000) works with vol. eg 224000 for explanation with 240000 and 224000
25	(a)		Sharif Decision	B1 P1	Sharif with mention of greatest total t starts working with proportions	hrows
	(b)		(supported)	A1		for the rest; or ref to just Paul's results
	(c)	Tot: H 300 T 100		P1	selects Sharif or overall and multiplie	
	(-)		$\frac{9}{16}$		F	
				A1	oe	
26	(a)		$\frac{\sqrt{3}}{2}$	B1		
	(b)		6	M1	starts process eg $\sin 30 = \frac{x}{12}$	
				A1	answer given	
27			x^2+2x-3	M1 A1	starts expansion: at least 3 terms correlignoring signs for x^2+2x-3	ect with signs, or four terms correct

Paper 1MA1: 1F			
Question	Working	Answer	Notes
28		(x+4)(x-4)	B1 for $(x+4)(x-4)$
29		x=7, y=-3	M1 for correct process to eliminate one variable (condone one arithmetic error) M1 (dep) for substituting found value in one of the equations or appropriate method after starting again (condone one arithmetic error) A1 for both correct solutions