	1MA1 Pr	actice papers Set 6: Pap	per 2F (Re	egular) mark scheme – Version 1.0
Quest	stion Working	Answer	Mark	Notes
1		$\frac{1}{2}$	1	B1 for $\frac{1}{2}$ or an equivalent fraction
2		0.17	1	B1 cao
3		$\frac{4}{5}$	2	M1 for $\frac{40}{50}$ oe, A1 cao
4		18	2	$\begin{array}{c} \text{M1 for } 24 \div 4 \times 3 \text{ oe} \\ \text{A1 cao} \end{array}$
5		125	2	M1 for complete method using graph eg 50 euros = \pounds 42; 42 × 3 A1 for 122 – 128
6		36	1	B1 cao for Cazda
		120°	1	B1 cao for Zusuki
		42	2	M1 for correct method from using 105°
				e.g. 18 ÷ 45 × 105, "36" ÷ 90 × 105 or from table, e.g. Cazda "36" × 4–(18+36+48)
				A1 for 42 or ft values from their table.
7		Jane should buy Greens Garden Shop + costs	4	M1 for Suttons: $140 \div 20 (= 7)$ bags of compost needed M1 for $3 \times 3.25 (= 9.75) + 1 \times 2.25 (=12)$ M1 for Greens: cost of 2 bags eg $\times 4.99 (= 9.98)$, $2 \times 5 (=10)$ C1 for correct conclusion from a comparison of correct appropriate figures

		1MA1 Pra	ctice papers Set 6: Pap	er 2F (Re	egular) mark scheme – Version 1.0
Que	stion	Working	Answer	Mark	Notes
8	(a)		25	1	B1 cao
	(b)		yes with correct comparative figures	3	M1 for method to calculate journey time travelling at 30 mph, eg $\frac{20}{30}$ (=0.66) or 40 (mins) M1 (dep) for method to work out arrival time at home, (consistent units), eg 18 10 + "40 mins" (=18 50) C1 for yes with comparison of 40 minutes with 50 minutes or stating arrival time home as 18 50 OR M1 for method to calculate speed in order to get home by 1900 eg $20 \div \frac{50}{60}$ (= 24 mph) M1 (dep) for stating speed as 24 mph C1 for yes with supporting calculations showing speed as 24 mph
9	(a)	4×3	12	1	B1 cao
	(b)		5	2	M1 for $4 \times 2 - 3$
					A1 cao

		1MA1 P	actice papers Set 6: Pap	oer 2F (Re	egular) mark scheme – Version 1.0				
Que	estion	Working	5						
10	(a)		37, 41	2	B1 for 37; B1 for 41				
	(b)		e.g added 4; +4	1	B1 for sight of $4n + 13$				
	(c)		61						
	(d)		e.g. even number all numbers in sequence are odd	1	B1 69, 73 are in the sequence or solution of $4n + 13 = 70$ does not give an integer				
11		$143.64 \div 19 = 7.56$ $7.56 \times 31 =$	234.36	3	M1 for $143.64 \div 19$ (or 7.56 seen) or 143.64×31 (or 4452.84 seen)				
		1.50 × 51			M1(dep) for '7.56' × 31 or '4452.84' ÷ 19				
					or 143.64 + 12×'7.56'				
					A1 for 234.36 cao accept 234.36p				
					Alternative method:				
					M1 for $\frac{31}{19}$ (or 1.63(1) seen)				
					M1 (dep) '1.63' × 143.64				
					A1 for 234.36 cao accept 234.36p				

		1MA1 Pra	ctice papers Set 6: Pap	oer 2F (Re	egular) mark scheme – Version 1.0
Question Working			Answer	Mark	Notes
12	(a)	Smart phone 838 DVDs $4 \times 16 = 64$ Lawnmower $57 \div 3 \times 12$ = $19 \times 12 = 228$ 838 + 64 + 228 = 1130	1130	3	M1 for $57 \div 3 \times 12$ or 228 seen M1 for $838 + 4 \times 16 + 57 \div 3 \times 12$ A1 cao
	(b)	$4500 \div 500 = 9$ 9×2.40 = 21.60	No with explanation	4	M1 for $4500 \div 500$ (= 9) (maybe implied by 9 lots of 500 seen) M1 for '9' × 2.40 A1 cao for 21.60 C1 (dep on M1) f.t. for 'No' Decision must be stated and must be attributable from a correct method. for 22 ÷ 2.40 (= 9.1666)
		Or 22 ÷ 2.40 = 9.1666 9.1666 × 500 = 4583.33			Or M1 for '22 ÷ 2.40' × 500 A1 for answer in range 4583 to 4583.33 C1 (dep on M1) f.t. for 'No' Decision must be stated and must be attributable from a correct method.

1MA1 Practice papers Set 6: Paper 2F (Regular) mark scheme – Version 1.0 Ouestion Working Mark Notes						
Que	stion	Working	Answer	Mark	Notes	
14		60 - 29 = 31	16	4	M1 for calculation of total Men $60 - 29$ (= 31 Men)	
		13 - 8 = 5			M1 for calculation for Men who like	
		31 - 10 - 5 = 16			Italian 13 – 8 (= 5 Men like Italian)	
					M1 for calculation for Men who liked Thai $31' - 10 - 5'$	
					A1 for 16	
					OR	
					M1 for a 2-way table or diagram with clear labelling showing at least 3 pieces of the given information correctly placed	
		Th C It W 6 15 8 29			M1 for correct method for one calculated entry in diagram: Men 60–29(=31)	
		M 16 10 5 31			or Women and Chinese 29–8–6 (= 15)	
		22 25 13 60			or Men and Italian 13–8 (= 5)	
					M1 for 3 correct entries for Men or 2 correct entries for Thai that with correct arithmetic would lead to 16 (Men and Thai)	
					A1 for 16	
15		$(7+3+3) \times (4+3+3) - 7 \times 4 = 102$	11	4	M1 for a correct method to find the area of one appropriate rectangle	
		or			M1 for a complete method to find the area of the path	
		$2 \times 7 \times 3 + 2 \times 4 \times 3$			M1 (dep on M1) for "102" ÷ 10	
		$+4 \times 3 \times 3 = 102$			A1 cao	

		1MA1 Pra	ctice papers Set 6: Pap	er 2F (Re	egular) mark scheme – Version 1.0					
Que	stion	Working	Answer	Mark	Notes					
16	(a)		Evens	1	B1 cao					
			Certain	1	B1 cao					
	(b)		4	2	M1 for 14 or $\frac{3+7}{n} = \frac{5}{7}$ or					
					any fraction equivalent to $\frac{2}{7}$ or $\frac{5}{7}$					
					A1 cao					
17	(a)		A and C	1	B1 for A and C (no extras)					
	(b)		B or E	1	B1 for B or E (or both) (no extras)					
	(c)		2	1	B1 cao					
18			77	3	M1 for $21 \div 6$ (= 3.5) for sf length or $21 \div 6 \times 5$ (=17.5)					
					M1 for 3×"3.5" + 3×"3.5" + 21 + 21					
					or 17.5+17.5+21+21 oe					
					A1 cao					
					OR					
					M1 for $21 \div 6$ (=3.5) for sf length					
					M1 for $(6+5+6+5) \times$ "3.5" or 22×3.5 oe					
					A1 cao					

	1MA1 Pra	ctice papers Set 6: Paj	per 2F (Re	egular) mark scheme – Version 1.0			
Questio		Answer	Mark	Notes			
19	x + x + 4 + 3(x + 4) = 51	Ann 7	5	M1 for $x + 4$ or $3(x + 4)$ oe seen			
	2x + 4 + 3x + 12 = 51	Beth 11		M1 for $x + x + 4^{2} + 3(x + 4)^{2}$			
	5x + 16 = 51	Cath 33		M1 x + x + 4 + 3(x + 4) = 51			
	5x = 35		A1 for 7 or 11 or 33				
	$5x = 35 \div 5$			C1 for Ann 7, Beth 11, and Cath 33 oe			
				OR			
				M1 for using a value for n , eg $n + 4$ or $4 \times n$			
				M1 for attempting a trial using n , $n + 4$ and $3(n + 4)$			
				M1 for at least 2 trials with correct totals for ' n '			
				A1 for 11 or 33			
				C1 for Ann 7, Beth 11, and Cath 33 oe			
20		A and 3	2	B2 for all 4 correct			
		B and 2					
		C and 4		(B1 for 2 correct)			
		D and 1					
21	1 - (0.008 + 0.015)	0.977	2	M1 for 1 – (0.008 + 0.015) oe			
				A1 for 0.977 oe			

$\frac{6}{7.5"}$ (=0.8)
$\cos^{-1} \frac{6}{"7.5"} (= 0.8)$
entified as ACB)
' is not 40–50,
)
os ⁻

	1MA1 Practice papers Set 6: Paper 2F (Regular) mark scheme – Version 1.0								
Question	Working	Answer	Mark	Notes					
24		126	3	M1 for $180 - (360 \div 5) (= 108)$ or $(5 - 2) \times 180 \div 5 (= 108)$					
				M1 for a complete method eg $\frac{360 - "108"}{2}$ or $180 - \frac{"108"}{2}$					
				A1 cao					

National performance	data from Results Plus
----------------------	------------------------

	Origin	al sourc	e of questi	ons			Mean score of students achieving grade:					
Qn	Spec	Paper	Session YYMM	Qn	Торіс	Max score	ALL	с	D	Е	F	G
1	5MM2	2F	1306	Q09a	Fractions	1	0.80	0.99	0.98	0.96	0.88	0.80
2	5MM2	2F	1306	Q09b	Decimals	1	0.82	0.96	0.95	0.91	0.75	0.70
3	5MM2	2F	1306	Q09c	Fractions	2	1.61	0.73	0.48	0.37	0.33	0.34
4	5MM2	2F	1306	Q09d	Fractions	2	1.38	0.95	0.90	0.86	0.76	0.68
5	1MA0	2F	1611	Q15b	Conversions	2		Data te	o be added	in January	2017	
6	1MA0	2F	1611	Q8	Pie charts	4		Data te	o be added	in January	2017	
7	1MA0	2F	1611	Q10	Ratio	4		Data te	o be added	in January	2017	
8	1MA0	2F	1611	Q21	Compound measures	4	Data to be added in January 2017					
9	1MA0	2F	1306	Q08	Substitute into expressions	3	1.78	2.88	2.59	1.96	1.08	0.46
10	4MA0(R)	1F	1501	Q05	Sequences	5	4.53	4.76	4.61	4.66	4.00	1.00
11	1380	2H	906	Q05	Decimals	3	2.88	2.83	2.59	2.00		
12	5AM2	2F	1211	Q20	Ratio	7	5.26	6.45	5.97	5.27	3.52	1.53
13	1MA0	1F	1611	Q22	Grouped frequency	3		Data te	be added	in January	2017	
14	5AM1	1H	1306	Q13	Two-way tables	4	3.66	3.56	2.96	1.62		
15	1MA0	1F	1611	Q23	Area	4		Data te	be added	in January	2017	
16	1MA0	2F	1311	Q16	Probability	4	2.37	3.23	2.63	2.15	1.80	1.51
17	1MA0	2F	1211	Q13	Congruence and similarity	3	1.73	2.37	1.96	1.65	1.35	0.98
18	5AM2	2H	1411	Q05	Scale factors	3	2.28	2.11	1.21	1.00		
19	5AM1	1H	1211	Q09	Solve linear equations	5	3.87	3.48	2.73			
20	1380	2H	1011	Q11	Distance-time / travel graphs	2	0.89	0.77	0.66	0.57		
21	5AM2	2H	1111	Q06	Probability	2	1.47	1.62	1.00	0.00	0.00	0.00
22	1MA0	2H	1406	Q15	Pythagoras in 2D	7	2.91	2.16	0.88	0.20		
23	1380	2H	1203	Q02	Mean, median, mode	2	0.71	0.45	0.14	0.07		
24	1MA0	2H	1611	Q14	Angles	3		Data te	be added	in January	2017	
					TOTAL	80						