Question		Working	Answer	Mark	Notes
1	(a)		unlikely	1	B1
	(b)		1	1	B1
			\times at $\overline{2}$		
	(c)		× at 0	1	B1
					Total 3 marks

Ques	tion	Working	Answer	Mark	Notes
2	(a)		Bar drawn	1	B1
			to 12		
	(b)		Bogota,	1	B1
			Lima		
	(c)		Manila	1	B1
	(d)		11	1	B1
	(e)	90 : 60 oe			M1 or for an answer of 2 : 3
			3:2	2	A1 cao
					Total 6 marks

Question		Working	Answer	Mark	Notes
3	(a)		3 or 19 or 51 or 81	1	B1
(b)			24 or 60	1	B1
	(c)		16 or 81	1	B1
	(d)		3 or 19	1	B1
					Total 4 marks

Question		Working	Answer	Mark	Notes	
4	(a)		12 <i>ef</i>	1	B1	
	(b)		3m+8k	2	B2 B1 for 3 <i>m</i> or (+) 8 <i>k</i>	
	(c)	5y = 14 - 3 or $5y = 11$ or		2	M1	
		3 - 14 = -5y or $-11 = -5y$				
			2^{1}		A1 21 11	
			$\frac{2}{5}$		for $\frac{2}{5}$ or $\frac{5}{5}$ oe or 2.2	
					Total 5 marks	

Ques	tion	Working	Answer	Mark	Notes
5	(a)		16	1	B1
			20		
	(b)		12 squares	1	B1
			shaded		
	(c)		80	1	B1
	(d)	$48 \div 4 \times 5 \text{ or } 48 \times 5 \div 4 \text{ or}$			M1 for a complete method
		$48 \div 0.8 \text{ or } 48 \times 1.25 \text{ oe}$			
			60	2	A1
					Total 5 marks

Question		Working	Answer	Mark	Notes
6	(a)		5	1	B1
	(b)		60	1	B1
	(c)		1000	1	B1
					Total 3 marks

Question		Working	Answer		Mar	rk	Notes	
7	(a)		4	1	B1			
	(b)	10-4		2	M1	or for 10 a	and 4	selected
			6		A1			
	(c)	4, 4, 4, 4, 4, 5, 7, 7, 7, 8, 10		2	M1	allow one	e erro	r or omission
			5		A1			
	(d)		more with reason	ı 1	B1	e.g. mean	ofe	xtra pairs of shoes is £40; £31 is £3 less
						than giver	n me	an and £49 is £15 more than given mean
						Total 6 m	arks	

Question		Working	Answer	Mark	Notes
8	(a)		5 700 000	1	B1
	(b)		$4 \times 10 - 3$	1	B1
	(c)		5 000 000 or 5×10^{6}	2	B2 If not B2 then award B1 for
			oe		$320000 \text{ or } 3.2 \times 105 \text{ oe or}$
					5×10^n oe where $n \neq 6$
					Total 4 marks

Ques	tion	Worl	king							Answer	Mark	Notes
9	(a)		1	2	3	4	5	6		Fully	2	B2 fully correct table
		1	1	2	3	4	5	6		correct table		(B1 for 4 or 5 or 6 correct entries)
		2	2	4	6	8	10	12				
		3	3	6	9	12	15	18				
	(b)	b)					a 4					
												M1 for $\overline{18}$ where $0 < a < 18$ or for \overline{b} where $b > 4$
					4	2	A1 oe accept 0.22(2) or 22.(2)%					
										18		
	(c)	'8'	'6'									M1 ft from their complete table for two figures that can be used for
		$\frac{18}{18}$	18 or	··8'.'	6' or							comparison, one of which must be correct
		0.4(4	l). 0	.3(3.	.) or							
		40%	. 30%	6 or t	better							
) - • ·							Yes oe with	2	A1
										reason		
												Total 6 marks

Question		Working	Answer		Mark	Notes	
10	(a)	1, 2, 4, 5, 8, 10, 20, 40 and 1, 2, 4, 8, 16, 32, 64 OR 2 × 2 × 2 × 5 and 2 × 2 × 2 × 2 × 2 × 2		2	M1	for start to list factors – must be at least 4 for each of 40 and 64 or prime factorisation of both numbers with at least 2 stages correct eg $40 = 2 \times 20 = 2 \times 4 \times 5$ could be numbers on tree or in table	
			8		A1		
						Total 2	marks

Ques	tion	Working	Answer	Mark	Notes
11	(a)		Correct shape drawn	1	B1
	(b)	7, 12, 17, 22, 27, 32, 37 or $5 \times 7 + 2$ or $17 + (4 \times 5)$ $7 + (6 \times 5)$			M1 for adding 5 and continuing to at least pattern 7 (allow one error) or for a correct diagram or any correct method which would lead to 37
			37	2	A1
	(c)	7, 12, 17, 22, 27, 32, 37, 42, 47, 52, 57, 62 or $5n + 2 = 62$ or $62 \div 5$ (= 12.4)			M1 for continuing the sequence to at least 62 (list of values may be seen in earlier parts of question)
			12	2	A1
	(d)	For identifying all terms in sequence end in 2 or 7 or none of the numbers end in 3 or method to count on as far as 122 e.g. No, 122 and 127 are both in sequence oe e.g. No, 122 in sequence or method to find n when term is 123 e.g. solving $5n + 2 = 123$ or $(123 - 2) \div 5 (= 24.2)$ or e.g. 121 not multiple of 5 or $121 \div 5$ not whole number/it's a decimal	No with reason	1	
					Total 6 marks

Question		Working	Answer Ma			Notes
12	(a)	$2 \times 7 + 3 \times -4$ or $14 + -12$ or $14 - 12$		2	Μ	1
			2		Α	1
	(b)		e^4	1	B	
	(c)		y^{16}	1	B	
	(d)	$x^2 + 9x - 2x - 18$		2	M	1 for 3 correct terms or 4 correct terms ignoring signs or $x^2 + 7x + c$ or $\dots + 7x - 18$
			$x^2 + 7x - 18$		Α	1
	(e)		$4cp^2(4c^3+5p)$	2	Bź	if not B2 then award B1 for any correct factorisation with at least 2 factors outside the bracket eg $4cp(4c^3p + 5p^2)$, $cp^2(16pc^3 + 20p)$, $2p(8c^4 + 10cp^2)$ etc or the correct common factor and a 2 term expression with just one error
						Total 8 marks

Question		Working	Answer	Mark	Notes
13	(a)		Diameter	1	B1
	(b)		Chord	1	B1
	(c)		Sector	1	B1 accept the semicircle shaded
			shaded		
					Total 3 marks

Question		Working	Answer	Mark	Notes	
14	(a)		triangle with vertices	2	B2	if not B2 then award B1 for
			(6, 4)(6, 1)(4, 1)			a rotation of 180° about a different
						centre
	(b)				B1	Reflection
			Reflection in $x = -1$	2	B1	x = -1
						NB. No marks if more than one
						transformation is stated or
						suggested with column vector,
						coordinate, SF, angle etc
						Total 4 marks

Question		Working	Answer	Mark	Notes		
15	(a)		9, 3, (-1), -3, (-3), -1, (3)	2	B2	If not B2 then award	
						B1 for at least 2 correct values	
(b)				2	M1	dep on B1 ft from (a) for at least 5	
						points plotted correctly	
			correct graph		A1	for the correct graph (clear	
						intention to go through all the	
						points and which must be curved at	
						the bottom)	
						Total 4 marks	

Question	Working	Answer	Mai	rk	Notes	
16	48 ÷ 2 (=24)		4	M1		
	"24" \div 3 = 8			M1	dep	up 411 5
	"8" × 5			M1	dep	M2 for 124 $\times -3$
		40		A1		
	Alternative scheme					
	(5):3:6 oe		4	M1		
	$48 \div 6 (=8)$ oe			M1	dep	10 5
	"8" × 5 oe		_	M1	dep	M2 for 48×-6
		40		A1		
					Total 4 m	arks

Question	Working	Answer	Mark	Notes	
17	e.g. $\frac{14}{3}$ and $\frac{10}{9}$			M1	Both fractions expressed as improper fractions
	e.g. $\frac{14}{3} \times \frac{9}{10}$			M1	or for both fractions expressed as equivalent fractions with denominators that are a common multiple of 3 and 9 eg. $\frac{42}{9} \pm \frac{10}{9} \text{ or } \frac{126}{27} \prod \frac{30}{27}$
	$\frac{14}{3} \times \frac{9}{10} = \frac{126}{30} = \frac{21}{5} = 4\frac{1}{5}$ or $\frac{14}{3} \times \frac{9}{10} = \frac{126}{30} = 4\frac{6}{30} = 4\frac{1}{5}$ or $\frac{14^{7}}{3^{1}} \times \frac{9^{3}}{10^{5}} = \frac{21}{5} = 4\frac{1}{5}$ or $\frac{126}{27} \prod \frac{30}{27} = \frac{126}{30} = \frac{21}{5} = 4\frac{1}{5}$	Shown	3	A1	Dep on M2 for conclusion to $4\frac{1}{5}$ from correct working – either sight of the result of the multiplication $\frac{126}{30}$ must be seen or correct cancelling prior to the $\frac{21}{5}$ NB: use of decimals scores no marks
					Total 3 marks

Questio	n	Working	Answer	Mark	Notes
18		2x + 0.18 + 2x + 3x + 0.26 + x = 1 or 1 - (0.18 + 0.26) (= 0.56)			M1
		$x = (1 - 0.18 - 0.26) \div (2 + 2 + 3 + 1) (=0.07)$			M1
		(0.18 + 4 × 0.07") × 200 or 0.46 × 200 or 36 + 42 + 14 oe			M1 dep on M2 and probabilities between 0 and 1 $\frac{92}{200}$, oe with 92 seen
			92	4	A1
					Total 4 marks

Question		Working	Answer		Mark	Notes			
19		$(8 =) 2 \times 2 \times 2 \text{ or } 2^3 \text{ or } 23 + n$		2	M1	For clearly writing 8 as a product of prime fact			
						or as 2 ³			
			$2^{n+3} \times 3 \times 5^m$		A1				
						Total 2	marks		

Performance data for Practice Test 1F (Set 10)

			Edexcel averages: scores of candidates who achieved grade:								
	Mean	Max	Mean		-				-		
Qn	score	score	%	ALL	5	4	3	2	1	U	
Q01	2.66	3	89	2.66	2.93	2.87	2.73	2.48	2.07	1.67	
Q02	5.28	6	88	5.28	5.80	5.67	5.40	4.96	4.19	3.21	
Q03	3.37	4	84	3.37	3.79	3.65	3.46	3.13	2.60	1.78	
Q04	3.89	5	78	3.89	4.80	4.62	4.18	3.16	1.89	0.41	
Q05	3.75	5	75	3.75	4.67	4.39	3.98	3.11	1.90	0.66	
Q06	2.19	3	73	2.19	2.77	2.61	2.27	1.77	1.21	0.56	
Q07	4.37	6	73	4.37	5.36	5.16	4.65	3.69	2.16	0.84	
Q08	1.29	2	65	1.29	1.75	1.59	1.33	0.99	0.55	0.22	
Q09	3.69	6	62	3.69	4.75	4.32	3.78	2.99	2.08	0.83	
Q10	1.24	2	62	1.24	1.65	1.47	1.30	1.00	0.58	0.13	
Q11	3.68	6	61	3.68	5.15	4.34	3.77	2.80	1.80	0.73	
Q12	4.02	8	50	4.02	6.34	5.28	4.07	2.52	0.98	0.06	
Q13	1.45	3	48	1.45	2.03	1.73	1.49	1.06	0.66	0.20	
Q14	1.85	4	46	1.85	3.17	2.45	1.76	1.06	0.50	0.13	
Q15	1.52	4	38	1.52	2.56	2.12	1.53	0.79	0.19	0.01	
Q16	1.48	4	37	1.48	2.71	1.97	1.41	0.74	0.25	0.03	
Q17	0.88	3	29	0.88	1.86	1.21	0.75	0.32	0.13	0.03	
Q18	0.56	4	14	0.56	1.87	0.79	0.21	0.05	0.01	0.00	
Q19	0.09	2	5	0.09	0.17	0.14	0.08	0.04	0.01	0.00	
Total	47.26	80	59	47.26	64.13	56.38	48.15	36.66	23.76	11.50	

Suggested grade boundaries

1MA1 Practice Tests (Set 10)			9	8	7	6	5	4	3	2	1
1F	Foundation tier	Paper 1F					60	51	42	30	18
2F/3F	Foundation tier	Paper 2F/3F					53	43	31	20	11
Total	Foundation tier						113	94	73	50	29

(Marks for papers 1F, 2F/3F are each out of 80.)