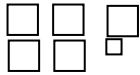



**1MA1 Practice Tests Set 1: Paper 2F (Regular) mark scheme – Version 1.0**

Question		Working	Answer	Mark	Notes
1			$\frac{9}{10}$ or 9 tenths	1	B1 for $\frac{9}{10}$ or 9 tenths
2			0.07, 0.7, 0.704, 0.74, 0.744	1	B1 cao
3			15gh	1	B1 cao
4			15.9489	1	B1 cao
5			12	2	M1 for $48 \div 4$ or $48 \times \frac{1}{4}$ oe A1 cao
6	(i)  (ii)		15, 9   Key:  = 4	5	B2 for both (B1 for 15 or 9) B1 for correct shapes for Bhavini B1 for correct shapes for David B1 for correct key: picture of a box, “4” and = (or is, etc.); accept alternatives that demonstrate 3 and/or 2 and/or 1 with no errors.
7			e.g. 10, 12, 5, 2	3	M1 for at least 2 factors of 60 clearly identified M1 for $20 < \text{sum of '4 distinct natural numbers'} < 35$ A1 cao
8			explanation	1	C1 for “he has divided 8 by 4 but should have divided 4 by 8” (or equivalent)

**1MA1 Practice Tests: Set 1 Regular (2F) mark scheme – Version 1.0**

**1MA1 Practice Tests Set 1: Paper 2F (Regular) mark scheme – Version 1.0**

Question		Working	Answer	Mark	Notes
<b>9</b>		Balance = £312 + £145 = £457 Sum of items = £450.32 Final balance = £6.68	6.68	4	M1 adding the items (= 450.32) M1 312 + 120 + 25 M1 "312 + 120 + 25"-"450.32" A1 cao
<b>10</b>			conclusion	1	C1 for No and example, e.g. "10 – -2 = 12" or statement, e.g. "If you subtract a negative number the answer will be greater than 10"
			example	1	C1 for appropriate example, e.g. 14 ÷ 2 = 7
<b>11</b>	(i)		cone	1	B1 for cone or alternative spellings only that sound like "cone" B1 for cylinder or alternative spellings only that sound like "cylinder". Accept circular based prism
	(ii)		cylinder	1	
<b>12</b>	(a)	$8 \times 30 + 20$	260	2	M1 for $8 \times 30 + 20$ A1 cao
	(b)	$34 \times 8 = 272$ $300 - 272$  <b>OR</b> $34 \times 8 + b = 300$ $272 + b = 300$ $b = 300 - 272$	28	3	M1 for $34 \times 8$ or 272 or forming equation M1 dep for $300 - "272"$ A1 cao <b>OR</b> M1 $300 = 34 \times 8 + b$ M1 $300 - "34 \times 8" = b$ A1 cao

**1MA1 Practice Tests Set 1: Paper 2F (Regular) mark scheme – Version 1.0**

Question		Working	Answer	Mark	Notes
<b>13</b>	(a)	100 – 20 – 24	56	2	M1 A1 cao
	(b)		$\frac{6}{25}$	2	M1 A1 $\frac{24}{100}$ oe
	(c)		15	2	M1 $\frac{20}{100} \times 75$ or $\frac{75}{5}$ oe A1 cao SC: Award B1 for final answer of 60
<b>14</b>	(a)	$8.6 \times 5 = 43 \rightarrow \text{“£180”}$	£123-£127	1	B1 £123-£127 inclusive
	(b)		35-36	1	B1 35-36 inclusive
	(c)		£175-£185	3	M1 $8.6 \times 5$ A1 43 A1 answers in the range £175-£185 SC: B2 for 43
<b>15</b>	(a)		2.30 pm	1	B1 cao
	(b)		1 hour	1	B1 for 1 hour or 60 minutes
	(c)		5 pm	1	B1 cao
	(d)		4.5	1	B1 for 4.5 hours oe

**1MA1 Practice Tests Set 1: Paper 2F (Regular) mark scheme – Version 1.0**

Question		Working	Answer	Mark	Notes
<b>16</b>	(a)		correct arrangement shown	2	B2 twelve stones shown in a rectangle (ok if pond in the middle) or a rectangle with correctly labelled sides (B1 for rectangle drawn or 12 stones used)
	(b)(i)		10	3	B1 cao
	(ii)		14m <sup>2</sup>		B1 for 14 B1 for m <sup>2</sup>
<b>17</b>		36 × 8.5 × 5 = 1530 1530 ÷ 8 = 191.25 or could plan for 191, 191, 191 then 192	191 or 192	4	M2 36 × 8.5 × 5 (M1 for the product of any two of these terms) M1 (dep on at least M1 achieved) ÷ 8 A1 cao
<b>18</b>	(a)	1 – 0.2 – 0.1 0.7 ÷ 2	0.35	3	M1 for correctly using total probability is 1 or 100% if percentages used M1 (dep) for complete correct method to complete the solution A1 for 0.35 or 35% or $\frac{35}{100}$ oe
	(b)		20	2	M1 for 0.1 × 200 oe A1 cao SC : If M0 then award B1 for an answer of $\frac{20}{200}$

**1MA1 Practice Tests Set 1: Paper 2F (Regular) mark scheme – Version 1.0**

Question		Working	Answer	Mark	Notes
<b>19</b>			488	3	M1 $600 \times 67.1 (= 40260)$ or $67.1 \div 82.5 (= 0.813\dots)$ M1 (dep) “40260” $\div 82.5$ or “0.813..” $\times 600$ A1 cao SC: B2 for 712
<b>20</b>		$6^2 + 9^2 = 117$ $\sqrt{117} =$	10.8	3	M1 for $6^2 + 9^2$ M1 for $\sqrt{36 + 81}$ or $\sqrt{117}$ A1 for 10.8 – 10.82
<b>21</b>	(a)		Negative	1	B1 cao
	(b)		117–123	2	M1 for a line of best fit drawn between (9,130) and (9, 140) and between (13,100) and (13,110) inclusive A1 for 117 – 123
<b>22</b>		12, 24, 36, 48, 60, 72, .... 8, 16, 24, 32, 40, 48, 56, 64, 72,...	25.80	5	M1 for listing at least 3 multiples of each of 12 and 8 or 24 in two lists of multiples or from factor trees M1 (dep) for attempt to find a common multiple of 12 and 8 above 60 (= 72) M1 (dep M2) for method to find the number of boxes <b>and</b> the number of packs $72 \div 12 (= 6)$ and $72 \div 8 (= 9)$ M1 for finding the total cost by multiplying numbers by cost and adding eg “6” $\times 2.50 +$ “9” $\times 1.20$ A1 for 25.8(0)

**1MA1 Practice Tests Set 1: Paper 2F (Regular) mark scheme – Version 1.0**

Question	Working	Answer	Mark	Notes
23	5, 13, 29, 53, 85, 125	(85)	2	M1 for correct evaluation of at least 3 odd cases or sequence of 5, (8), 13, (20), 29... seen or the expression with $n = 9$ or 11 or 19 or 21 or ... substituted but not evaluated A1 for 85 or 125 or 365 or 445 or ... identified
24	$2y - y = 3 - 6$ or $x + 2x = 3 + 12$	$x = 5, y = -1$	3	M1 for a complete method to eliminate one variable (condone one arithmetic error) A1 $x = 5$ A1 $y = -1$ NB: Candidates showing no working score 0 marks
25		28% or $\frac{14}{50}$	4	M1 for $100 - 30 (= 70)$ or $1 - \frac{3}{10} \left( = \frac{7}{10} \right)$  M1 for “70” $\div (3 + 2) (= 14)$ or $\frac{7}{10} \div (3 + 2) \left( = \frac{7}{50} \right)$  M1 for “14” $\times 2$ or $\frac{7}{50} \times 2$  A1 for 28% or $\frac{14}{50}$ oe  OR M1 for a correct method to find $(100 - 30)\%$ of any actual sum of money M1 for “350” $\div (3 + 2) (= 70)$ M1 for “70” $\times 2$

**1MA1 Practice Tests Set 1: Paper 2F (Regular) mark scheme – Version 1.0**

Question		Working	Answer	Mark	Notes
					A1 for 28% or $\frac{14}{50}$ oe  OR M1 for starting with two numbers in ratio 3:2, e.g. 21 and 14 M1 for equating sum of their numbers to 100 – 30 (=70%), eg ‘21’ + ‘14’ (=35) M1 for scaling sum of their numbers to 100%, e.g. ‘35’ $\div$ 70 $\times$ 100 (=50)  A1 for 28% or $\frac{14}{50}$ oe  SC: award B3 for oe answers expressed in an incorrect form e.g. $\frac{2.8}{10}$

National performance data from Results Plus

Qu	Spec	Paper	Session YYMM	Qu	Topic	Mean score	Max score	Mean % all	Mean score of students achieving grade:					
									ALL	C	D	E	F	G
1				NEW	Place value		1			No data available				
2				NEW	Ordering decimals		1			No data available				
3				NEW	Simplifying expressions		1			No data available				
4	5MM2	2F	1111	Q01d	Four operations	0.69	1	69	0.69	0.88	0.82	0.64	0.40	0.35
5	1MA0	1F	1406	Q07a	Scales	1.33	2	67	1.33	1.85	1.71	1.55	1.27	0.85
6	1380	2F	1106	Q04	Pictograms	4.19	5	84	4.19	4.82	4.63	4.30	3.54	2.48
7	1MA0	2F	1206	Q16	Factors and multiples	1.94	3	64	1.94	2.69	2.37	1.93	1.31	0.74
8				NEW	Solving linear equations		1			No data available				
9	5AM1	1F	1106	Q04a	Four operations	4.61	4	80	3.21	4.00	3.78	2.75	3.38	2.75
10				NEW	Algebraic proof		2			No data available				
11	1380	2F	906	Q07	Properties of 3D shapes	1.58	2	79	1.58	1.84	1.71	1.52	1.26	0.97
12	5AM2	2F	1111	Q07	Money calculations	3.54	5	71	3.54	4.43	4.46	3.61	3.11	2.69
13	4MA0	1F	1501	Q07	Percentages	5.05	6	84	5.05	5.85	5.47	4.52	3.55	1.60
14	2540	2F	806	Q08	Graphs of real-life situations	3.35	5	67	3.35	4.56	3.86	2.78	1.85	1.13
15	5AM2	2F	1206	Q12	Distance-time / speed graphs	2.98	4	75	2.98	3.42	3.07	2.77	2.55	1.69
16	5AM1	1F	1111	Q07	Perimeter and area	2.52	5	50	2.52	3.48	3.17	2.57	2.09	1.61
17	5AM1	1F	1106	Q12	Ratio	1.76	4	44	1.76	3.67	2.83	1.88	1.38	0.33
18	1MA0	2H	1303	Q04	Probability	4.00	5	80	4.00	4.25	2.74	0.84		
19	4MA0(R)	2F	1501	Q17	Proportions	2.30	3	77	2.30	2.67	2.08	1.33	0.50	
20	5MM2	2F	1211	Q26	Pythagoras in 2D	1.00	3	33	1.00	2.90	1.88	0.52	0.14	0.11
21	1380	2F	911	Q27	Scatter diagrams	1.66	3	55	1.66	2.47	1.86	1.21	0.69	0.45
22	1MA0	2H	1406	Q14	HCF and LCM	3.68	5	74	3.68	3.58	2.77	1.58		
23	2540	2H	811	Q05	Number sequences	0.74	2	37	0.74	0.45	0.12	0.09		
24	4MA0(R)	2F	1501	Q20	Solving simultaneous equations	0.72	3	24	0.72	0.94	0.62	0.00	0.00	0.00
25	1MA0	2H	1306	Q07	Ratio	1.58	4	40	1.58	1.01	0.33	0.09		
							<b>80</b>							