

Paper 1MA1: 1F				
Question	Working	Answer	Mark	Notes
12 (a)	12 7 19	Correct table	B3	Fully correct table
Q1	18 8 26		(B2	for 5, 6, 7 or 8 figures correct)
	30 15 45		(B1	for given values entered correctly in the table or for a correct row or column)
(b)		$\frac{8}{45}$	B1	for $\frac{8}{45}$ or ft from values in table eg $\frac{8}{45}$

Paper: 1MA1/2F				
Question	Working	Answer	Mark	Notes
12 (a)		23, 177	C3	Completes all information correctly.
Q2		10, 13, 85, 92	(C2	3 or 4 correct frequencies or all correct probabilities)
			(C1	2 correct frequencies)
(b)		$\frac{13}{23}$	M1	ft oe for $\frac{a}{23}$, $a < 23$ or $\frac{13}{b}$, $b > 13$
			A1	ft oe from (a)

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
17 (a)	32, 48, 24, 8, 37, 11	C1	starts to interpret information, eg 48 or 8 in correct place	
Q3		C1	for $80 - 48 (= 32)$ and " 32 " - 8 (= 24)	
		C1	completes frequency tree correctly SC: award C2 if all correct frequencies are shown as fractions of 80.	
		M1	ft for $\frac{a}{"61"}$ with $a < "61"$ or $\frac{"37"}{b}$ with $b > "37"$	Incorrect notation with " 37 " and " 61 " can earn the method mark but not the accuracy mark.
(b)	$\frac{37}{61}$	A1	ft from diagram in (a)	Accept any equivalent fraction, decimal form 0.60(65...) or 0.61 or percentage form 60(.65...) % or 60% or 61%

Paper: 1MA1/2F					
Question	Answer	Mark	Mark scheme	Additional guidance	
14 Q4		4	C1	for correctly placing at least one piece of data (22 or 16) OR for finding at least one unknown piece of data (4, 18, 7 or 23)	Unknown figures may be seen in working and need not be on the diagram
	22	18	C1	for correctly placing at least one piece of data (22 or 16) and for finding at least one unknown piece of data (4, 18, 7 or 23)	Award of this mark implies the first C1
	45	7	C1	for a complete correct tree.	
	23	C1	SC C2 if all 6 figures are shown as the numerator of fractions in the correct places		
		16			

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
15 (a) Q5	16	C1	starts to interpret information eg 75 or 29 in the correct place	May be seen as numerators of fractions for the first 2 marks.
	45 29	C1	for $120 - 75 (= 45)$ and “45” – 29 (= 16)	Could be seen in working or on the diagram
	75 14	C1	Complete and correct frequency tree	
(b)	$\frac{29}{120}$	B1	for $\frac{29}{120}$ or ft “29” from part (a)	Accept any equivalent fraction, decimal form 0.24(166...) or percentage form 24(.166..) Ignore subsequent incorrect attempts to write the correct answer in a different form.

Paper: 1MA1/1F																								
Question	Answer	Mark	Mark scheme	Additional guidance																				
21	14	P1	for process to find total number of boys, $40 - 22 (= 18)$ OR the number of girls who travel by bus $10 - 6 (= 4)$	<table border="1"> <tr> <td></td> <td>W</td> <td>C</td> <td>B</td> <td></td> </tr> <tr> <td>boy</td> <td>5</td> <td>(7)</td> <td>(6)</td> <td>18</td> </tr> <tr> <td>girl</td> <td>(9)</td> <td>9</td> <td>4</td> <td>(22)</td> </tr> <tr> <td></td> <td>14</td> <td>16</td> <td>(10)</td> <td>(40)</td> </tr> </table> <p>Note 16 is 7+9 and 10 is 6+4 6+7 is 13 and 4+9=13 may be seen as intermediate steps</p>		W	C	B		boy	5	(7)	(6)	18	girl	(9)	9	4	(22)		14	16	(10)	(40)
	W	C	B																					
boy	5	(7)	(6)		18																			
girl	(9)	9	4		(22)																			
	14	16	(10)	(40)																				
Q6		P1	for process to find the number of girls who cycle to school $22 - "4" - 9 (=9)$ OR the number of boys who walk to school $"18" - 6 - 7 (= 5)$																					
		P1	full process to find the total number of students who walked to school eg $"5"+ 9$ or $40 - (6+ 7 + "4" + "9")$																					
		A1	cao																					

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
9	4 5 23 32 8 9 7 24 12 14 30 56	B3 (B2) (B1)	for a fully correct table for at least 7 figures correctly placed) for the given values correctly placed in the table or one correct row or column)	Given values in bold Given values: 5, 32, 8, 12, 14, 56

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
14	Completed table	M1	for correctly entering two of 11, 2, 5, 10 (= 30 – 20)	4 2 4 10 1 8 11 20 5 10 15 30
Q8		M1	(indep) for using the rule for the top row eg. ([10 males] – [2 male tennis]) ÷ 2 (=4)	Award 2 nd M1 if top row is correct
		A1	for complete correct table	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
17	7 22 15	C1	for correctly placing one of the given values in the diagram eg 38 women or 15 men email	
Q9	38 29 9	M1	for 60 – 38 (=22) or 22 (men) correctly placed in the diagram or 60 – 38 – 15 (=7) or 7 (men texting) correctly placed in the diagram	May be implied by the total number of texts in the frequency diagram being 36 9 or 29 on the diagram (women branch) gets the two M marks for finding and calculating with 60% of 60 If probabilities used instead of frequencies then maximum of C1M1M1M1A0 can be awarded
		M1	for a method to find 60% of 60, eg. 60×0.6 (= 36)	
		M1	for calculating with 60% of 60 eg “36” – (“22” – 15) (= 29) or “36” – “7” (=29) or (60 – “36”) – 15 (= 9)	
		A1	for a fully correct frequency diagram	

Paper: 1MA1/3F																									
Question	Answer	Mark	Mark scheme		Additional guidance																				
23	22	P1	for process to find total choosing German eg $200 - 104 - 70 (=26)$	for process to find girls choosing French (44) or total number of girls (110)	<table border="1"> <thead> <tr> <th></th> <th>F</th> <th>S</th> <th>G</th> <th>total</th> </tr> </thead> <tbody> <tr> <td>girls</td> <td>44</td> <td>48</td> <td>18</td> <td>110</td> </tr> <tr> <td>boys</td> <td>60</td> <td>22</td> <td>8</td> <td>90</td> </tr> <tr> <td>total</td> <td>104</td> <td>70</td> <td>26</td> <td>200</td> </tr> </tbody> </table>		F	S	G	total	girls	44	48	18	110	boys	60	22	8	90	total	104	70	26	200
	F	S	G	total																					
girls	44	48	18	110																					
boys	60	22	8	90																					
total	104	70	26	200																					
Q10		P1	for complete process to find boys choosing Spanish eg $90 - (60 + ("26" - 18))$	for complete process to find boys choosing Spanish eg $70 - ("110" - "44" - 18)$																					
		A1	cao																						

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
17 (a)	Frequency diagram See end of m/s	C3	for a fully correct frequency diagram	If probabilities used instead of frequencies then maximum of C2 can be awarded Accept equivalent decimal or percentage forms of probability Ignore errors in cancelling of their $\frac{12}{72}$
		(C2	for at least 5 correct values in the frequency diagram)	
		(C1	for at least 3 correct values in the frequency diagram)	
	(b)	$\frac{12}{72}$	M1	
Q11		A1	for $\frac{12}{72}$ oe or ft (a)	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
13	53 19 67 139 17 26 59 70 45 83 198	B3	for a fully correct table	
Q12		(B2	for at least 7 figures correctly placed)	
		(B1	for the 4, 5 or 6 values correctly placed)	