

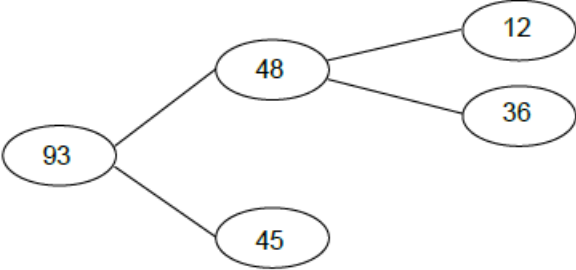
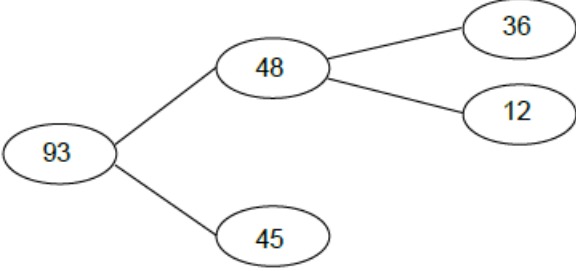
Q	Answer	Mark	Comments
1(a)	20 home and 20 away	B1	
	8 home losses	B1ft	ft their $20 \times \frac{2}{5}$ rounded to the nearest whole number
	2 away wins	B1ft	ft their $20 \times \frac{1}{10}$ rounded to the nearest whole number
	5 home draws and 6 away draws	B1ft	ft their 8 and their 2 condone their 8 and their 2 as zero or non-integers award if total of home games is their 20 and total of away games is their 20 and total number of games is 40
	Additional Guidance		
	Mark the cells in the frequency tree		

Q	Answer	Mark	Comments
1(b)	Any two of (home wins =) 7×6 or 42 or (home draws =) their 5×3 or 15 or (away wins =) their 2×6 or 12 or (away draws =) their 6×3 or 18	M1	may be implied by one of (total points for their wins) 54 or (total points for their draws) 33 or (total points for their home) 57 or (total points for their away) 30
	87	A1ft	ft their frequency tree with positive integers in all relevant sections
	Additional Guidance		
	Using non-integers		M0A0

Q	Answer	Mark	Comments
2(a)	0.2 on Jose not pass	B1	oe fraction, decimal or percentage
	0.4 on Maria pass and 0.6 on Maria not pass twice	B1	oe fraction, decimal or percentage
	Additional Guidance		
Q	Answer	Mark	Comments
2(b)	0.32 or $\frac{32}{100}$ or $\frac{16}{50}$ or $\frac{8}{25}$ or 32%	B1	oe fraction, decimal or percentage
	Additional Guidance		
	Ignore simplification or conversion if correct answer seen eg1 $\frac{32}{100}$ seen Answer $\frac{3}{10}$ eg2 $\frac{32}{100}$ seen Answer 3.2%		B1 B1
	Ignore words if correct answer seen eg1 $\frac{32}{100}$ seen Answer 32 out of 100 eg2 0.32, unlikely		B1 B1
	Answer given as ratio (even if correct answer also seen) eg 32 : 100		B0
	Answer only in words eg 32 out of 100		B0
	Only 32 (without %)		B0

Q	Answer	Mark	Comments
3(a)	8 in Time exercising Less than 1 hour	B1	
	23 in Exercise taken No	B1	
	58 in Total number of students	B1ft	ft 35 + their 23 or 27 + their 8 + their 23
	Additional Guidance		
	8 in Time exercising Less than 1 hour 47 in Exercise taken No 82 in Total number of students	B1 B0 B1ft	
	7 in Time exercising Less than 1 hour 25 in Exercise taken No 59 in Total number of students	B0 B0 B1ft	

Q	Answer	Mark	Comments
3(b)	$\frac{27}{35}$ or 0.77(...) or 77(. ...)%	B1	oe fraction
	Additional Guidance		
	Ignore attempts to simplify or convert after correct fraction seen eg1 $\frac{27}{35}$ seen, answer $\frac{5}{7}$ eg2 $\frac{27}{35}$ seen, answer 7.7%	B1 B1	
	Ignore words if correct answer seen eg1 $\frac{27}{35}$ seen, answer 27 out of 35 eg2 77%, unlikely	B1 B1	
	Answer given as ratio (even if correct answer also seen) eg 27 : 35	B0	
	Answer only in words eg 27 out of 35	B0	
	Only 77 (without %)	B0	

Q	Answer	Mark	Comments
4(a)	45 in No (Played)	B1	
	36 in No (More than one game played?)	B1	
	12 in Yes (More than one game played?)	B1ft	ft 48 – their 36 their 36 must be a positive integer less than 48
	Additional Guidance		
	Mark the frequency tree		
			B1B1B1
			B1B0B1ft

Q	Answer	Mark	Comments
4(b)	Alternative method 1		
	0.68×93 or 63.2(4)	M1	oe
	64	A1	
	Alternative method 2		
	$\frac{63}{93} = 0.67(\dots)$ or $\frac{64}{93} = [0.68, 0.69]$	M1	other trials can be ignored
	64	A1	
	Additional Guidance		
	Answer only 64	M1A1	
	0.69×93 or 64.1(7) or 64.2 with answer 64 (without seeing 0.68×93 or 63.2(4))	M0A0	
	For 0.68×93 , accept $68\% \times 93$ but do not accept 68% of 93 unless recovered		

Q	Answer	Mark	Comments
5	96 in Eat sushi Yes	B1	
	384 in Eat sushi No	B1ft	ft 480 – their 96 if giving a value > 0
	64 in At least once a month Yes	B1ft	ft their 96 ÷ 3 × 2 truncated to the nearest integer or rounded up to the nearest integer
	32 in At least once a month No	B1ft	ft their 96 – their 64 if giving a value > 0 or their 96 ÷ 3 truncated to the nearest integer or rounded up to the nearest integer
	Additional Guidance		
	Mark the four given diagram ovals only		
	240 240 160 80		B0B1ft B1ftB1ft
	Follow through values may be rounded up or down to whole numbers provided the total is correct eg 80 400 53 27 (53 is $\frac{2}{3}$ of 80 rounded down)		B0B1ft B1ftB1ft
	Follow through decimal values, withhold first B1, if applicable, at first use of decimal eg1 105.6 374.4 70.4 35.2 (105.6 is incorrect and first use of decimal) eg2 80 400 53.3 26.7 (53.3 is correct ft and first use of decimal) eg3 96 384 63.36 32.64 (63.36 is incorrect and first use of decimal)		B0B1ft B1ftB1ft B0B1ft B0ftB1ft B1B1 B0B1ft
	Correct or ft relative frequencies shown out of 480 seen in appropriate places, withhold first B1 that would have been awarded eg1 $\frac{96}{480}$ $\frac{384}{480}$ $\frac{64}{480}$ $\frac{32}{480}$ eg2 $\frac{45}{480}$ $\frac{435}{480}$ $\frac{30}{480}$ $\frac{15}{480}$ eg3 $\frac{90}{480}$ $\frac{390}{480}$ $\frac{30}{480}$ $\frac{60}{480}$		B0B1 B1B1 B0B0ft B1ftB1ft B0B0ft B0ftB1ft

Q	Answer	Mark	Comments
6(a)	$\frac{1}{4}$ (red) and $\frac{3}{4}$ (blue) for Bag A	B1	oe fractions, decimals or percentages
	$\frac{3}{5}$ (white) and $\frac{2}{5}$ (green) for both sections for Bag B	B1	oe fractions, decimals or percentages
	Additional Guidance		
	Percentages must have the % symbol		

Q	Answer	Mark	Comments
6(b)	$\frac{1}{4} \times \frac{3}{5}$	M1	oe fractions, decimals or percentages correct or ft their tree diagram with both probabilities > 0 and < 1
	$\frac{3}{20}$ or 0.15 or 15%	A1ft	correct or ft their tree diagram with both probabilities > 0 and < 1
	Additional Guidance		
	Further work after correct answer seen		M1A0

Q	Answer	Mark	Comments
7	1550 in Away	B1	
	1370 in Home Yes	B1	
	5480 in Home No	B1ft	ft 6850 – their 1370 their 1370 must be less than 6850
	949 in Away Yes	B1ft	ft 2319 – their 1370 their 1370 must be less than 2319
	601 in Away No	B1ft	ft their 1550 – their 949 their 1550 must be greater than their 949
	Additional Guidance		
	If Away oval is blank then condone an indication of 1550 as Away		
	If Home Yes oval is blank then condone an indication of 1370 as Home Yes		
	ft values must be from ovals		