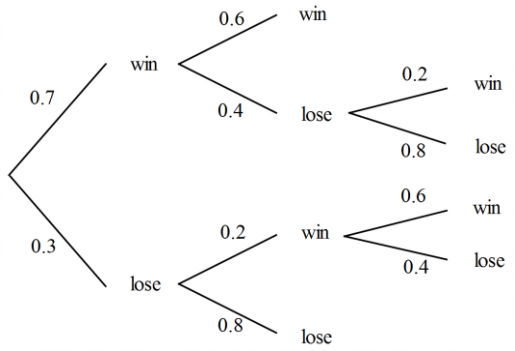
Question Number	Scheme	Marks
1 (a)		B1 B1 B1
		(3)
(b)	$0.7\times0.6=0.42$ oe	M1 A1
		(2)
(c)	$'0.42'+(0.7\times'0.4'\times'0.2')+('0.3'\times'0.2'\times'0.6')=0.512$ oe	M1 A1
		(2)
(d)	$\frac{'0.42'}{'0.512'}=0.8203...$ oe awrt 0.820	M1 A1ft
		(2)
(e)	$\frac{'0.42'+(0.7\times'0.4'\times'0.2')}{0.7}=0.68$ oe or $0.6+'0.4'\times'0.2'=0.68$ oe	M1 A1
		(2)

	Notes		Total 11
(a)	**B1**	For 0.3 in the correct place on the first branch and 0.4 in the correct place on the second branch	
	B1	For 0.2 and 0.8 in the correct place in the second branch	
	B1	For 0.2, 0.8, 0.6 and 0.4 in the correct place in the third branch	
		NB ISW any extra branches drawn on the tree diagram	
(b)	**M1**	For 0.7×0.6	
	A1	Cao	
(c)	**M1**	For $'0.42'+(0.7\times'0.4'\times'0.2')+('0.3'\times'0.2'\times'0.6')$ Follow through part (b) and their tree diagram	
	A1	Cao	
(d)	**M1**	For $\frac{\text{part (b)}}{\text{part (c)}}$ provided the answer is a probability or ft their tree diagram	
	A1ft	awrt 0.820 or ft part (b) and part (c) provided the answer is a probability or ft their tree diagram. Allow 0.82 If ft and a decimal answer is given then this must be at least 3sf	
(e)	**M1**	For a correct ratio of probabilities. Follow through their part (b) and their tree diagram or $0.6+'0.4'\times'0.2'$ ft their tree diagram	
	A1	Cao Allow 0.680	