15	(a)		$\frac{3}{9}$ $\frac{2}{9}, \frac{4}{9}, \frac{3}{9}$	2	B1 for lower 1st game branch probability B1ft for all values correct on 2nd game branches
	(b)	$\left(\frac{2}{9}\times\frac{3}{9}\right)$ or $\left(\frac{3}{9}\times\frac{2}{9}\right)$ or $\left(\frac{4}{9}\times\frac{4}{9}\right)$ oe or		3	M1 ft from their tree diagram for one correct product from *WL* or *L W* or *DD* (allow probabilities to 2 dp truncated or rounded)
		$\left(\frac{2}{9}\times\frac{3}{9}\right) + \left(\frac{3}{9}\times\frac{2}{9}\right) + \left(\frac{4}{9}\times\frac{4}{9}\right)$ oe			M1 ft for a fully correct method
		Correct answer scores full marks (unless from obvious incorrect working)	$\frac{28}{81}$		A1 Allow 0.345 ... (2 dp truncated or rounded) or 34.5% (2 sf truncated or rounded)
	(c)	$\left(\frac{2}{9}\times\frac{4}{9}\times\frac{3}{9}\right)$ or $\left(\frac{4}{9}\times\frac{4}{9}\times\frac{4}{9}\right)$		3	M1ft from their tree diagram for any combination of *WLD* or *DDD* (allow probabilities to 2 dp truncated or rounded)
		$6\times\left(\frac{2}{9}\times\frac{4}{9}\times\frac{3}{9}\right) + \left(\frac{4}{9}\times\frac{4}{9}\times\frac{4}{9}\right)$			M1ft for a fully correct method
		Correct answer scores full marks (unless from obvious incorrect working)	$\frac{208}{729}$		A1 Allow 0.285 ... (2 dp truncated or rounded) or 28.5% (2 sf truncated or rounded)
					Total 8 marks

15 (a) **ALT**		$\frac{3}{9}$ $\frac{2}{9}, \frac{4}{9}, \frac{3}{9}$	2	B1 for lower 1st game branch probability B1ft for all values correct on 2nd game branches
(b)	1 and $\left(\frac{2}{9}\times\frac{2}{9}\right)$ or $\left(\frac{4}{9}\times\frac{2}{9}\right)$ or $\left(\frac{4}{9}\times\frac{3}{9}\right)$ or $\left(\frac{3}{9}\times\frac{3}{9}\right)$ oe		3	M1ft from their tree diagram for 1 and one correct product from *WW*, *DW*, *DL* or *LL* (allow probabilities to 2 dp truncated or rounded)
	$1-\left[\left(\frac{2}{9}\times\frac{2}{9}\right)+2\left(\frac{4}{9}\times\frac{2}{9}\right)+2\left(\frac{4}{9}\times\frac{3}{9}\right)+\left(\frac{3}{9}\times\frac{3}{9}\right)\right]$ oe			M1ft for a fully correct method
	Correct answer scores full marks (unless from obvious incorrect working)	$\frac{28}{81}$		A1 Allow 0.345 ... (2 dp truncated or rounded) or 34.5% (2 sf truncated or rounded)
(c)	1 and $\left(\frac{2}{9}\times\frac{2}{9}\times\frac{2}{9}\right)$ or $\left(\frac{2}{9}\times\frac{2}{9}\times\frac{4}{9}\right)$ or $\left(\frac{2}{9}\times\frac{2}{9}\times\frac{3}{9}\right)$ or $\left(\frac{2}{9}\times\frac{4}{9}\times\frac{4}{9}\right)$ or $\left(\frac{2}{9}\times\frac{3}{9}\times\frac{3}{9}\right)$ or $\left(\frac{4}{9}\times\frac{4}{9}\times\frac{3}{9}\right)$ or $\left(\frac{4}{9}\times\frac{3}{9}\times\frac{3}{9}\right)$ or $\left(\frac{3}{9}\times\frac{3}{9}\times\frac{3}{9}\right)$ oe		3	M1ft from their tree diagram for 1 and one correct product from *WWW* or *WWD* or *WWL* or *WDD* or *WLL* or *DDL* or *DLL* or *LLL* (allow probabilities to 2 dp truncated or rounded)
	$1-\left[\begin{array}{l}\left(\frac{2}{9}\times\frac{2}{9}\times\frac{2}{9}\right)+3\left(\frac{2}{9}\times\frac{2}{9}\times\frac{4}{9}\right)+3\left(\frac{2}{9}\times\frac{2}{9}\times\frac{3}{9}\right)+3\left(\frac{2}{9}\times\frac{4}{9}\times\frac{4}{9}\right)\\+3\left(\frac{2}{9}\times\frac{3}{9}\times\frac{3}{9}\right)+3\left(\frac{4}{9}\times\frac{4}{9}\times\frac{3}{9}\right)+3\left(\frac{4}{9}\times\frac{3}{9}\times\frac{3}{9}\right)+\left(\frac{3}{9}\times\frac{3}{9}\times\frac{3}{9}\right)\end{array}\right]$ oe			M1ft for a fully correct method
	Correct answer scores full marks (unless from obvious incorrect working)	$\frac{208}{729}$		A1 Allow 0.285 ... (2 dp truncated or rounded) or 28.5% (2 sf truncated or rounded)
				Total 8 marks