Question	Working	Answer	Mark	Notes
11 (a)		$\frac{11}{16}$ $\frac{7}{20}, \frac{13}{20}, \frac{7}{20}, \frac{13}{20}$	2	B1 for $\frac{11}{16}$ oe (0.68(75)) on LH bottom branch (decimals to at least 2 dp truncated or rounded) B1 for $\frac{7}{20}, \frac{13}{20}, \frac{7}{20}, \frac{13}{20}$ on RH branches (0.35, 0.65, 0.35, 0.65)
(b)	$\frac{5}{16}\times"\frac{7}{20}"$ **or** $"\frac{11}{16}"\times"\frac{13}{20}"$ **or** $\frac{5}{16}\times\frac{13}{20}$ **or** $"\frac{11}{16}"\times"\frac{7}{20}"$		3	M1 ft their tree diagram (dep on $0 < p < 1$)
	$\frac{5}{16}\times"\frac{7}{20}"+"\frac{11}{16}"\times"\frac{13}{20}"$ **or** $1-\frac{5}{16}\times"\frac{13}{20}"-"\frac{11}{16}"\times"\frac{7}{20}"$			M1 ft their tree diagram (dep on $0 < p < 1$)
	Working not required, so correct answer scores full marks (unless from obvious incorrect working)	$\frac{89}{160}$		A1 oe 0.55(625) 55% or 56% SCB1 for $\frac{5}{16}\times"\frac{7}{20}"\times"\frac{11}{16}"\times"\frac{13}{20}"\left(=\frac{5005}{102400}\right)\left(=\frac{1001}{20480}=0.0488....\right)$
				Total 5 marks