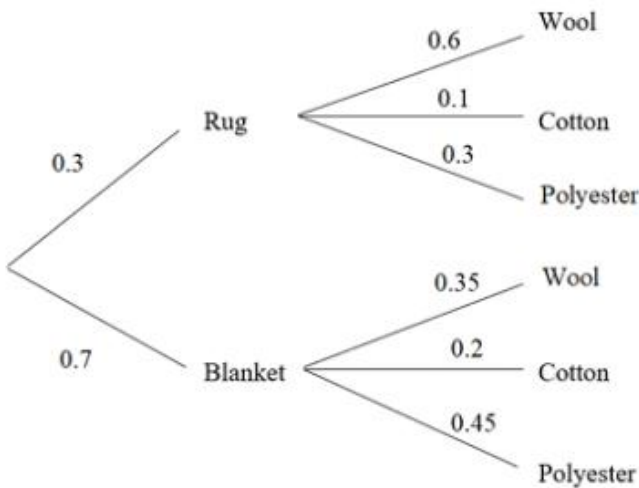


Daily Question Applied Mathematics Day 5 Mark Scheme

Question Number	Scheme		Marks
(a)			B1 B1
(b) (i)	$P(W') = 0.3 \times (0.1 + 0.3) + 0.7 \times (0.2 + 0.45)$ or $P(W') = 1 - (0.3 \times 0.6 + 0.7 \times 0.35)$ $= \underline{0.575}$		(2) M1 A1
(ii)	$P(B W') = \frac{P(B \cap W')}{P(W')} = \frac{0.7 \times (0.2 + 0.45)}{0.575}$ $= \frac{91}{115}$		(2) M1 A1
Notes			Total 6
(a)	B1	At least 5 probabilities correct (allow fraction, percentage or decimal) But do not allow eg $\frac{3.5}{10}$ or 35 (without percentage symbol)	
	B1	All 8 probabilities correct (allow fraction, percentage or decimal) But do not allow eg $\frac{3.5}{10}$ or 35 (without percentage symbol)	
(b)(i)	M1	Correct probability expression fit the probabilities from their part (a)	
	A1	$\frac{23}{40}$ oe allow equivalent fraction, decimal or percentage	
(ii)	M1	Correct method for conditional probability used fit their part (a) and fit their (b)(i)	
	A1	awrt 0.791 allow awrt 79.1%	