2	scar red	Georgie has a red scarf, a blue scarf and a yellow scarf. Each day she wears exactly one of these scarves. The probabilities for the three colours are 0.2, 0.45 and 0.35 respectively. When she wears a red scarf, she always wears a hat. When she wears a blue scarf, she wears a hat with probability 0.4. When she wears a yellow scarf, she wears a hat with probability 0.3.		
	(a)	Find the probability that on a randomly chosen day Georgie wears a hat. [2]		
	(b)	Find the probability that on a randomly chosen day Georgie wears a yellow scarf given that she does not wear a hat. [3]		