Question	Tree Diagram	Probability
There are x blue counters and 4 red counters in a bag. Two counters are chosen at random without replacement. Complete the tree diagram and find expressions for each of the probabilities.		$P(BB) = \frac{x}{x+4} \times \frac{x-1}{x+3}$ $P(BR) = \times$
		$P(RB) = \times $ $P(RR) = \times$
There are 8 black pens and n green pens in a pencil case. Gloria chooses two pens at random from the pencil case. Complete the tree diagram and find expressions for each of the probabilities.	2nd Pen Black Green Black Green Green	$P(BB) = \frac{8}{n+8} \times $ $P(BG) = \times$
		$P(GB) = \times$
		$P(GG) = \times$
There are n biscuits in a tin. There are some digestives and five shortbreads. Ayyan takes two biscuits from the tin at random and eats them. Draw a tree diagram and find expressions for each of the probabilities.		$P(DD) = \times$
		$P(DS) = \times$
		$P(SD) = \times$ $P(SS) = \times$
A jar contains x lime sweets and some pear sweets. The number of pear sweets is one more than the number of lime sweets. Two sweets are chosen at random. Draw a tree diagram and find expressions for each of the probabilities.		$P(LL) = \times$
		$P(LP) = \times$
		$P(PL) = \times$
		$P(PP) = \times$