

Fill in the Blanks

Tree Diagrams for Dependent Events

Question	Tree Diagram	Probability	
<p>There are 6 red balls and 4 green balls in a bag. Two balls are chosen at random. Complete the tree diagram and calculate the probability of each outcome.</p>		$P(RR) = \frac{6}{10} \times \frac{5}{9} = \frac{30}{90}$	
		$P(RG) = \frac{6}{10} \times \frac{4}{9} = \frac{24}{90}$	
		$P(GR) = \quad \times \quad =$	
		$P(GG) = \quad \times \quad =$	
<p>There are 6 boys and 5 girls in a football team. Two team members are chosen at random. Complete the tree diagram and calculate the probability of each outcome.</p>		$P(BB) = \quad \times \quad =$	
		$P(BG) = \quad \times \quad =$	
		$P(GB) = \quad \times \quad =$	
		$P(GG) = \quad \times \quad =$	
<p>There are 4 donuts and 3 cookies in a tin. Riaz chooses two treats at random. Complete the tree diagram and calculate the probability of each outcome.</p>		$P(DD) = \quad \times \quad =$	
		$P(DC) = \quad \times \quad =$	
		$P(CD) = \quad \times \quad =$	
		$P(CC) = \quad \times \quad =$	
<p>There are 7 blue pens and 5 red pens in a pencil case. Two pens are chosen at random. Complete the tree diagram and calculate the probability of each outcome.</p>		$P(BB) =$	
		$P(BR) =$	
		$P(RB) =$	
		$P(RR) =$	