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## **Tree Diagrams (Conditional)** 1: A bag contains 10 counters with the letters of the word STATISTICS written on them. A counter is chosen at random and **not replaced** before choosing another one. Complete this tree diagram and hence answer the following: vowel vowel -consonant a) What is the probability of getting two consonants? b) What is the probability of getting vowel at least once? c) What is the probability of getting exactly one vowel? 2: A drawer contains 8 green socks and 2 orange socks. A sock is chosen at random and **not replaced** before choosing another one. Complete this tree diagram and hence answer the following: green green orange a) What is the probability of getting two orange socks? b) What is the probability of getting green at least once? c) What is the probability of getting two socks of different colours?

3:	A bag contains 14 counters with the letters of the word TRANSFORMATION written on them. A counter is chosen at random and <b>not replaced</b> before choosing another one. Complete this tree diagram and hence answer the following:
	vowel vowel
	consonant
a)	What is the probability of getting two vowels?
b)	What is the probability of not getting two vowels?
c)	What is the probability of not getting exactly one vowel?
4:	A bag contains 4 purple sweets and 6 blue sweets. A sweet is chosen at random and <b>not replaced</b> before choosing another one. Complete this tree diagram and hence answer the following:
	purple purple
	blue
a)	What is the probability of getting two blue sweets?
b)	What is the probability of getting purple at least once?
c)	What is the probability of getting two sweets of the same colour?

## **Answers: Tree Diagrams (Conditional)**



