

PRP Assignment 2

1. Three friends are playing a game of Ludo. To get the individual game started you require a one or a six. If no two friends get the same number. What is the probability that one of the friends succeed in starting his/her game in the first throw?
2. If one of the friends does not get the number one or six in the first throw. What is the probability that he will require more than three throws to start his game?
3. If one of the friends in ludo, get at least one six out of 10 times. What is the probability that he gets two or more than two six?
4. There are three types of light bulb. Out of the total Incandescent bulb is manufactured 15%, CFL light bulb is manufactured 45% and LED light bulb is manufactured 40% . Out of their outputs 7, 5, 2 per cent are the defective bulb. A bulb is drawn at random and is found defective. What is the probability that the defective bulb is Incandescent, CFL and LED?
5. Consider that 5 men out of 100 play video games and 50 women out of 10,000 play video games. A person that plays video games is chosen at random. What is the probability of his being male?(Assume male and female are equal in number).
6. Seven apples are distributed in seven baskets. What is the probability of having three apples in a basket given that exactly two baskets are empty?