Probability

Dec 2023

- 1. A fair dice is thrown two times. Find the probability distribution of the number of sixes . Also determine the number of sixes.
- 2. A card from a pack of 52 cards is lost. From the remaining cards of the pack, two cards are drawn randomly one-by-one without replacement and are found to be both kings. Find the probability of the lost card bring a king.
- 3. If the probability of an E happening is 0.023, then $P(\overline{E})$
- 4. Read the following passage and answer the questions given at the end: **Diwali Fair**

A game in a booth at a Diwali Fair involves using a spinner first. Then if the spinner stops on ever number, the player is allowed to pick a marble from a bag. The spinner and the marbles in the bag re represented in Figure-1. Prizes are given, when a black marble is picked. Shweta plays the game ones.

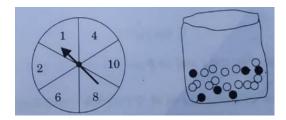


Figure 1

(a) What is the probability that she will be allowed to pick a marble from the bag?

(b)Suppose she is allowed to pick a marble from the bag, what is the probability of getting a prize, when it is given that the contains 20 balls out of which 6 are black?