

Maths : Probability

1. Express the sample space for rolling two dice using tree diagram.
2. State probability of an Event.
3. A bag contains 5 blue balls and 4 green balls. A ball is drawn at random from the bag. Find the probability that the ball drawn is a) blue . b) not blue.
4. What is the probability that a leap year selected at random will contain 53 saturdays.
5. A coin is tossed thrice. What is the probability of getting two consecutive tails?
6. Three fair coins are tossed together. Find the probability of getting
 - i) all heads. ii) atleast one tail iii) atmost one head iv) atmost two tails
7. In a box there are 20 non-defective and some defective bulbs. If the probability that a bulb selected at random from the box found to be defective is $\frac{3}{8}$ then, find the number of defective bulbs.
8. Two customers Priya and Amuthan are visiting a particular shop in the same week (Monday to Saturday). Each is equally likely to visit the shop on any one days as on another day. What is the probability that both will visit the shop on
 - i) the same day ii) different days iii) consecutive days?
9. Two dice are rolled together. Find the probability of getting a doublet or sum of faces as 4.
10. Refer Pg. No. 328
Example sums : 8.31 to 8.33.
11. The probability that atleast one of A and B occur is 0.6. If A and B occur simultaneously with probability 0.2, then find $P(\bar{A})+P(\bar{B})$.
12. From a well-shuffled pack of 52 cards, a card is drawn at random. Find the probability of it being either a red king or a black queen.
13. Three unbiased coins are tossed once. Find the probability of getting atmost 2 tails or atleast 2 heads.
14. In a town of 8000 people, 1300 are over 50 years and 3000 are females. It is known that 30% of the females are over 50 years. What is the probability that a chosen individual from the town is either a female or over 50 years?
15. Refer Pg. No. 330
Exercise 8.4
Sums No. 13.