
CBSE TEST PAPER-03

MATHEMATICS (Class-10)

Chapter 15. Probability

1. A letter is chosen at random from the letters of the word 'ASSASSINATION'. Find the probability that the letter chosen is a consonant. (1 mark)
2. The king, queen and jack of clubs are removed from a deck of 52 playing cards and these are well shuffled. One card is selected from the remaining cards. Find the probability of getting a club. (1 mark)
3. It is known that a box of 600 electric bulbs contains 12 defective bulbs. One bulb is taken out at random from this box. What is the probability that it is a non-defective bulb? (2 marks)
4. A game consists of tossing a one rupee coin 3 times and noting its outcome each time. Hanif wins if all the tosses give the same result i.e. three heads or three tails, and loses otherwise. Calculate the probability that Hanif will lose the game. (2 marks)
5. A jar contains 24 marbles some of the marbles are green others are blue. If one marble is drawn at random from the jar, the probability that it is green is $\frac{2}{3}$. Find the number of blue marbles in the jar. (2 marks)
6. 17 cards numbered 1,2,3...,17 are put in a box and mixed thoroughly. One person draws a card from the box. Find the probability that the number on the card is:
(i) Odd
(ii) A prime (2 marks)
7. Two dice are thrown simultaneously. Find the probability of getting : (2 marks)
(i) The sum as a prime number
(ii) A total of at least 10
8. An unbiased die is thrown. What is the probability of getting: (2 marks)
(i) An even number or a multiple of 3
(ii) An even number and multiple of 3
9. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is:
(i) Neither a heart nor a king
(ii) Spade or an ace (2 marks)
10. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is:
(i) Neither an ace nor a king
(ii) Neither a red card nor a queen (2 marks)