
CBSE TEST PAPER-02

MATHEMATICS (Class-10)

Chapter 15. Probability

1. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is a red card (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 king. (1 mark)
3. A bag contains 5 red balls and some blue balls. If the probability of drawing blue ball is double that of a red ball, find the number of blue balls in the bag. (2 marks)
4. What is the probability that a number selected from the numbers 1,2,3...,25 is a prime number, when each of the given numbers is equally likely to be selected? (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. Two unbiased coins are tossed simultaneously. Find the probability of getting: (2 marks)
 - (i) At least one head.
 - (ii) No head.
7. Two dice are thrown simultaneously. Find the probability of getting : (2 marks)
 - (i) A doublet of even number
 - (ii) A multiple of 2 on one dice and a multiple of 3 on the other.
8. Cards marked with the numbers 2 to 101 are placed in box and mixed thoroughly. One Card is drawn from this box. Find the probability that the number on the card is: (2 marks)
 - (i) A number which is a perfect square
 - (ii) A prime number less than 20.
9. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is: (2 marks)
 - (i) Other than an ace
 - (ii) A ten
10. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is: (2 marks)
 - (i) A spade
 - (ii) A black card