
CBSE TEST PAPER-04

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 vowel (1 mark)
2. The king, queen and jack of clubs are removed from a deck of 52 playing cards and the well shuffled. One card is selected from the remaining cards. Find the probability of getting the '10' of hearts. (1 mark)
3. In a lottery of 50 tickets numbered 1 to 50, one ticket is drawn. Find the probability that the drawn ticket bears a prime number. (2 marks)
4. In a lottery there are 10 prizes and 25 blanks. Find the probability of getting a prize? (2 marks)
5. Tickets numbered from 1 to 20 are mixed up together and then a ticket is drawn at random. What is the probability that the ticket has a number which is a multiple of 3 or 7. (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: (2 marks)
 - (i) divisible by 3
 - (ii) divisible by 3 and 2 both
7. A bag contains 5 red balls, 8 white balls, 4 green balls and 7 black balls. If one ball is drawn at random, find the probability that it is: (2 marks)
 - (i) black
 - (ii) red
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) an even number
 - (ii) a number less than 14
9. A card is drawn at random from a pack of 52 playing cards. Find the probability that the card drawn is: (2 marks)
 - (i) a black king
 - (ii) either a black card or a king
10. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is: (2 marks)
 - (i) black and a king
 - (ii) a jack, queen or a king