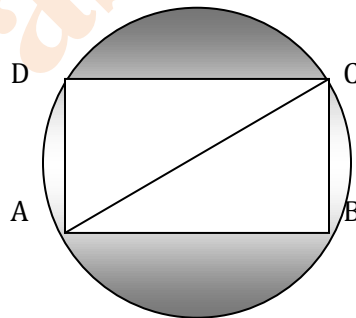


**Class: X**  
**Subject: Math's**  
**Topic: Probability**  
**No. of Questions: 20**

- Q.1 Two dice are thrown, what is the probability of getting a multiple of 3.
- Q.2 An unbiased die is thrown. What is the probability of getting an even number or a multiple of 3? (CBSE-2013)
- Q.3 Two unbiased coins are tossed simultaneously. Find the probability of getting at least one head. (CBSE-2010)
- Q.4 Two dice are thrown simultaneously. Find the probability of getting a doublet. (CBSE- 2013)
- Q.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.
- Q.6 One card is drawn from a pack of 52 cards, each of the 52 cards being equally likely to be drawn. Find the probability that the card drawn is a 10 of a black suit.
- Q.7 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 a club.
- Q.8 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?
- Q.9 Cards marked with the numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn from this box. Find the probability that the number on the card is a perfect square.
- Q.10 A letter is chosen at random from the letters of the word 'ASSASSINATION'. Find the probability that the letter chosen is a vowel.
- Q.11 Gopi buys a fish from a shop for his aquarium. The shopkeeper takes out one fish at random from the tank containing 5 male and 8 female fishes. What is the probability that the fish taken out is a male fish?

- Q.12 If a number  $x$  is chosen at random from the numbers  $-2, -1, 0, 1, 2$ . What is the probability that  $x^2 < 2$ ?
- Q.13 A jar contains 54 marbles each of which is blue, green or white. The probability of selecting a blue marble at random from the jar is  $\frac{1}{3}$ , and the probability of selecting a green marble at random is  $\frac{4}{9}$ . How many white marbles does the jar contain?
- Q.14 A number  $x$  is selected from the numbers  $1, 2, 3$  and then a second number  $y$  is randomly selected from the number  $1, 4, 9$ . What is the probability that the product  $xy$  of the two numbers will be less than 9?
- Q.15 A box contains cards numbered  $3, 5, 7, 9, \dots, 35, 37$ . A card is drawn at random from the box. Find the probability that the number on the drawn card is a prime number. (CBSE-2013)
- Q.16 A bag contains 6 red balls and some blue balls. If the probability of drawing a blue ball is twice that of the red ball, find the number of blue balls in the bag. (CBSE-2007)
- Q.17 What is the probability that a number selected at random from the numbers  $1, 2, 2, 3, 3, 3, 4, 4, 4, 4$  will be their average?
- Q.18 It is given that in a group of 3 students, the probability of 2 students not having the same birthday is 0.992. What is the probability that the 2 students have the same birthday?
- Q.19 A dart is thrown and lands in the interior of the circle. What is the probability that the dart will land in the shaded region?



- Q.20 A bag contains 5 red, 8 white and 7 black balls. A ball is drawn at random from the bag. Find the probability that the ball drawn is neither white nor black.