

Probability

Worksheet for class 10

Unsolved with Answer key



WORKSHEET

Probability

Question 1. A card is drawn from a well-shuffled deck of 52 cards. What is the probability of getting a heart?

Question 2. In a class of 40 students, 24 are boys and 16 are girls. If one student is chosen at random, what is the probability that the selected student is a girl?

Question 3. A bag contains 4 red and 6 black balls. What is the probability of drawing a red ball?

Question 4. Two dice are rolled. What is the probability of getting a sum of 8?

Question 5. A coin is tossed three times. What is the probability of getting exactly two heads?

Question 6. A box contains 6 red, 3 blue, and 5 yellow balls. A ball is drawn at random. Find the probability that the selected ball is:

(i) Blue

(ii) Not yellow

Question 7. In a deck of cards, what is the probability of drawing a card that is:

(i) A heart

(ii) A face card

Question 8. A jar contains 10 candies: 4 chocolate, 3 strawberry, and 3 vanilla. If a candy is picked at random, find the probability that it is:

(i) Strawberry

(ii) Not chocolate

Question 9. A dice is rolled. What is the probability of rolling a number that is:

(i) Greater than 4

(ii) An even number

Question 10. In a family of four children, what is the probability that:

(i) At least one is a girl

(ii) All are boys

Question 11. From a pack of cards, what is the probability of drawing an ace?

Question 12. Cards numbered 1 to 50 are placed in a box. What is the probability of picking a number that is a multiple of 5?

Question 13. A spinner is divided into 8 equal sections labeled 1 to 8. What is the probability that it lands on:

- (i) An odd number**
- (ii) A number greater than 5**

Question 14. A bag contains 5 apples, 3 oranges, and 2 bananas. If a fruit is selected at random, what is the probability that it is:

- (i) An orange**
- (ii) Not an apple**

Question 15. In a box with 7 blue and 5 white balls, if a ball is chosen at random, find the probability that it is:

- (i) Blue**
- (ii) White**

Question 16. A survey shows that 40% of people prefer tea over coffee. If one person is selected at random, what is the probability that they prefer:

- (i) Coffee**
- (ii) Neither**

Question 17. If a card is drawn from a standard deck of 52 cards, what is the probability that it is a face card?

Question 18. In a lottery with 100 tickets, 5 tickets are winners. What is the probability of selecting a winning ticket?

Question 19. Two coins are tossed. What is the probability of getting at least one head?

Question 20. What is the probability that the number selected from numbers 1, 2, 3, 4, 5,.....25 is a multiple of 4?

Probability

Answer Key

1. $1/4$
2. $2/5$
3. $3/5$
4. $5/36$
5. $3/8$
6. i). $3/14$ ii). $9/14$
7. i). $1/4$ ii). $1/13$
8. i). $3/10$ ii). $6/10$
9. i). $2/6$ ii). $3/6$
10. i). $15/16$ ii). $1/16$
11. $1/13$
12. $1/5$
13. i). $1/2$ ii). $3/8$
14. i). $3/10$ ii). $1/2$
15. i). $7/12$ ii). $5/12$
16. i). $1/5$ ii). $1/10$
17. $3/13$
18. $1/20$
19. $1/2$
20. $6/25$
- 21.