YugVanta

Class 10 Maths Part 1

5. Probability

SET B (Intermediate Level | Maharashtra Board)

1. A die is rolled twice. What is the probability that the sum of the numbers is 9?

2. A card is drawn from a well-shuffled pack of 52 playing cards. What is the probability that it is a face card of black color?

3. Two coins are tossed simultaneously. What is the probability of getting one head and one tail?

4. A bag contains 6 black balls and 4 red balls. A ball is drawn and then replaced. Another ball is drawn. What is the probability both balls are black?

5. A number is selected at random from 1 to 90. What is the probability that it is a multiple of 5 or 9?

6. A letter is chosen at random from the word "PROBABILITY." What is the probability of choosing a vowel?

7. A spinner has numbers 1 to 8. What is the probability that it lands on an even number or a number greater than 6?

8. A class has 25 students, 10 of whom wear glasses. One student is chosen at random. What is the probability the student does not wear glasses?

9. A bag has 3 white, 2 black, and 5 yellow balls. Two balls are drawn without replacement. Find the probability that both are of different colors.

10. A card is drawn from a deck. What is the probability that it is not a red card and not a King?

11. A pair of dice is rolled. What is the probability that the sum is greater than 10?

12. A box contains 12 bulbs, 4 of which are defective. One bulb is chosen at random. What is the probability that it is non-defective?

13. A bag contains 5 red, 6 blue, and 9 green marbles. What is the probability of drawing a red or blue marble?

14. From the numbers 1 to 40, a number is selected randomly. Find the probability that it is a prime number.

15. A coin is tossed 5 times. What is the probability of getting exactly 3 heads?

16. A drawer has 10 pens: 4 black, 3 blue, and 3 red. One pen is taken out at random. What is the probability that it is either blue or red?

17. A dice is rolled. What is the probability of getting a number which is a factor of 6?

18. A bag contains 2 yellow, 5 green, and 3 orange balls. A ball is drawn at random. What is the probability that it is not green?

19. In a class, 60% of students passed the test. One student is selected at random. What is the probability that the student did not pass?

20. A number is picked from the set {2, 4, 6, 8, 10, 12, 14, 16}. What is the probability that it is divisible by 4 but not by 8?