Probability Worksheet – Class 10

Name: _____Class/Section: _____Date:_____

Time: 1 Hour 30 Minutes Maximum Marks: 40

Section A – Easy Level (10 Marks) Each question carries 1 mark.

1. A die is thrown once. Find the probability of getting a number greater than 4.

2. A coin is tossed once. Find the probability of getting a head.

3. A card is drawn randomly from a well-shuffled deck of 52 cards. Find the probability of getting a queen.

4. A die is thrown once. Find the probability of getting a number less than 3.

5. Find the probability of getting a prime number when a die is thrown once.

6. A bag contains 6 red balls and 4 blue balls. Find the probability of selecting a blue ball.

7. Find the probability of an impossible event.

8. Find the probability of a certain event.

9. A card is drawn from a deck of 52 cards. Find the probability of getting a black card.

10. A die is thrown once. Find the probability of getting a number that is not divisible by 2.

pntutorial.in

Section B – Medium Level (15 Marks) Each question carries 3 marks.

11. A card is drawn at random from a well-shuffled deck of 52 playing cards. Find the probability of getting:

(a) A red king. (b) A face card. (c) Neither a red card nor a queen.

12. Two coins are tossed simultaneously. Find the probability of getting:

(a) At least one head. (b) Exactly two tails. (c) No head.

13. A die is thrown once. Find the probability of getting:

(a) A perfect square number. (b) A number divisible by 2 or 3.

(c) A number greater than 2 but less than 6.

14. A box contains 5 red, 8 white and 7 black balls. One ball is drawn at random. Find the probability that the ball drawn is:

(a) White. (b) Not black. (c) Red or black.

15. A number is selected randomly from the numbers 1 to 20. Find the probability that the selected number is:

(a) A prime number. (b) A multiple of 5. (c) A perfect square.

Section C – Hard Level (15 Marks) Each question carries 3 marks.

16. A bag contains 4 red, 5 blue and 6 green balls. One ball is drawn randomly. Find the probability that it is:

(a) Not green. (b) Red or blue. (c) Neither red nor green.

prtutorial.in

17. Two dice are thrown simultaneously. Find the probability of getting:

(a) A sum of 8. (b) A sum of 11. (c) A doublet (same number on both dice).

18. A card is drawn randomly from a well-shuffled deck of 52 cards. Find the probability of getting:

(a) An ace or a king. (b) A black queen. (c) A card that is neither an ace nor a face card.

19. A die is thrown 300 times and the number 5 appears 45 times. Find:

(a) The experimental probability of getting 5.

(b) The experimental probability of not getting 5.

(c) The number of times an outcome other than 5 occurs.

20. A bag contains 5 red balls, 4 blue balls and 3 green balls. One ball is drawn randomly. Find the probability that the ball drawn is:

(a) Red. (b) Blue or green. (c) Neither blue nor red.