Probability Worksheet – Class 9

Name: _____Class/Section: _____Date:_____

Time: 1 Hour 30 Minutes Maximum Marks: 40

Section A – Easy Level (10 Marks)

Each question carries 1 mark.

1. What is the probability of getting a head when a coin is tossed once?
2. A die is rolled once. Find the probability of getting a 4.
3. What is the probability of getting an even number when a die is rolled?
4. A bag contains 5 red balls and 3 blue balls. Find the probability of selecting a red ball.
5. What is the probability of getting a number greater than 6 when a standard die is rolled?
6. A coin is tossed once. What is the probability of getting a tail?
7. What is the probability of an impossible event?
8. What is the probability of a certain event?
9. A die is rolled. Find the probability of getting an odd number.
10. Write the range of probability of any event.

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

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

(a) A prime number. (b) A number less than 5. (c) A number that is a multiple of 3.

12. A card is drawn randomly from a well-shuffled deck of 52 playing cards.

Find the probability of getting:

(a) A king. (b) A red card. (c) A spade.

13. A bag contains 4 red, 6 green and 5 yellow balls. One ball is drawn at random.

Find the probability of getting:

(a) A green ball. (b) A yellow ball. (c) A ball that is not red.

14. The following table shows the number of students who like different sports.

Sport	Number of students
Cricket	15
Football	10
Badminton	8
Basketball	7

If one student is selected randomly, find the probability that the student likes:

(a) Cricket. (b) Football. (c) Badminton or basketball.

15. A coin is tossed twice. Write all possible outcomes and find the probability of getting:

(a) Two heads. (b) Exactly one head. (c) No heads.

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

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

(a) A sum of 7. (b) A sum of 10. (c) A sum less than 5.

17. A box contains 10 cards numbered from 1 to 10. One card is drawn randomly. Find the probability that the number on the card is:

(a) A prime number. (b) A perfect square. (c) Divisible by 2 or 3.

18. A class has 40 students. Out of these, 18 are boys and the remaining are girls. If one student is selected randomly, find the probability that the selected student is:

(a) A girl. (b) A boy. (c) Neither a boy nor a girl.

19. A die is thrown 120 times. The number 6 appears 25 times. Find:

(a) The experimental probability of getting 6.

(b) The experimental probability of not getting 6.

(c) How many times did an outcome other than 6 occur?

20. A bag contains 3 red, 4 blue and 5 green balls. Two balls are drawn one after another without replacement. Find the probability that:

(a) Both balls are red. (b) Both balls are blue. (c) The first ball is red and the second ball is green.