INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2026-27

CLASS: IX SUBJECT: Mathematics DATE: 07/11/26

LESSON 7: THE MATHEMATICS OF MAYBE : INTRODUCTION TO PROBABILITY

1. A die is thrown once. Find the probability of

i) a number lying between 2 and 6. ii) a prime number

2. Cards bearing numbers from 3 to 20 are placed in a bag and mixed thoroughly. A card is taken out from the bag at random. Find the probability that the number on the card is

i) an even number ii) a multiple of 5

3. A letter from English alphabet is chosen at random . Determine the probability that the chosen letter is a consonant.

4. Two coins are tossed simultaneously. Draw the tree diagram representing the outcomes List the sample space. Find the probability of getting

(i) two heads (ii) one head (iii) one tail (iv) atleast one head

(v) atmost two heads vi) one head and one tail

5. Three coins are tossed simultaneously. Draw the tree diagram representing the outcomes. . List the sample space. Find the probability of getting

(i) two heads (ii) one head (iii) one tail (iv) atleast one head

(v) atmost two heads vi) one head and one tail

6. In a survey of 100 people of a factory , 84 like tea and the remaining do not like tea. What is the probability that the person dis like tea?

7. Two cons are tossed simultaneously 500 times with the following frequencies of different outcomes.

Two heads : 95 time One head : 290 times No head : 115 times

Find the probability of occurrence of each of the outcomes .

8. What is the probability that a leap year selected at random will contain 53 Sundays.

9. There are 3 children in a family. Draw the tree diagram representing it. Find the probability of having atleast one boy.

10. A bag contains 4 red, 5 black and 3 yellow ball . Two balls are taken out random. Draw the tree diagram representing the colour of the balls. Find out the probability that the balls are

i) black ii) one red and one yellow iii) one black and one yellow.