## Probability class-9 Maths (Solved exercise) By-Ashish Jha

Question 10.
Activity: Ask all the students in your class to write a 3-digit number. Choose any student from the room at random. What is the probability that the number written by her/him is divisible by 3 ? Remember that a number is divisible by 3 , if the sum of its digit is divisible by 3 .
Solution:
A class room activity for students.
Question 11.
Eleven bags of wheat flour, each marked 5 kg , actually contained the following weights of flour (in kg)
$4.97,5.05,5.08,5.03,5.00,5.06,5.08,4.98,5.04,5.07,5.00$
Find the probability that any of these bags, chosen at random contains more than 5 kg of flour.
Solution:
Here, total number of bags $=11$
$\because$ Number of bags having more than 5 kg of flour $=7$
$\therefore$ Probability of a bag having more than 5 kg of flour $=7 / 11$

Question 12.
A study was conducted to find out the concentration of sulphur dioxide in the air in parts per million (ppm) of a certain city. The data obtained for 30 days is as follows.


You were asked to prepare a frequency distribution table, regarding the concentration of sulphur dioxide in the air in parts per million of a certain city for 30 days. Using this table, find the probability of the concentration of sulphur dioxide in the interval 0.12-0.16 on any of these days.

Solution:
Here, total number of days $=30$
". The number of days on which the sulphur dioxide concentration is in the interval $0.12-0.16=2$
$\therefore$ Probability of a day on which sulphur dioxide is in the interval $0.12-0.16=2 / 30=$ 1/15

## Question 13

The blood groups of 30 students of class VIII are recorded as follows
$A, B, 0,0, A B, 0, A, 0, B, A, 0, B, A, 0,0, A, A B, 0, A, A, 0,0, A B, B, A, B, 0$
You were asked to prepare a frequency distribution table regarding the blood groups of 30 students of a class. Use this table to determine the probability that a student of this class, selected at random, has blood group AB.
Solution:

Here, total number of students $=\mathbf{3 0}$
$\because$ Number of students having blood group AB = 3
$\therefore$ Probability of a student whose blood group is $A B=3 / 30=1 / 10$.

