Probability and random variables assignment

Maharshi Kadeval

1 EX 14.2 Q7

Abstract—This section provides the solution to problem 7 of exercise 14.2 of CBSE class 9th NCERT textbook of mathematics.

- 1.1. The value of π upto 50 decimal places is given below:
 - 3.1415926535897932384626433832795028841 9716939937510
 - (i) Make a frequency distribution of the digits from 0 to 9 after the decimal point.
 - (ii) What are the most and the least frequently occurring digits?

Solution:

we are given a raw data of digits after the decimal in π :

1,4,1,5,9,2,6,5,3,5,8,9,7,9,3,2,3,8,4,6,2,6,4,3,3,8,3,2,7,9,5,0,2,8,8,4,1,9,7,1,6,9,3,9,9,3,7,5,1,0

(i) frequency table:

TABLE 1.1.1

Digits	Frequency
0	2
1	5
2	5
3	8
4	4
5	5
6	4
7	4
8	5
9	8
Total	50

(ii) **From 1.1.1** we can easily see that the digit(s) with maximum frequency are 3 and 9 whereas the digit with the least frequency is 0.