

Assignment 3

Nitya Seshagiri Bhamidipaty (cs21btech11041)

Abstract—This document contains the solution for Assignment 3 (NCERT Class 9 Exercise 14.2 Q.5)

Hence, 8 days the concentration of sulphur dioxide more than 0.11 parts per million.

14.2 (5) 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:

0.03	0.08	0.08	0.09	0.04	0.17
0.16	0.05	0.02	0.06	0.18	0.20
0.11	0.08	0.12	0.13	0.22	0.07
0.08	0.01	0.10	0.06	0.09	0.18
0.11	0.07	0.05	0.07	0.01	0.04

TABLE I
RAW DATA

- Make a grouped frequency distribution table for this data with class intervals as 0.00 – 0.04, 0.04 – 0.08, and so on.
- For how many days, was the concentration of sulphur dioxide more than 0.11 parts per million?

Solution:

- The grouped frequency distribution table is given below:

Conc. of sulphur dioxide (ppm)	Frequency
0.00-0.04	4
0.04-0.08	9
0.08-0.12	9
0.12-0.16	2
0.16-0.20	4
0.20-0.24	2
Total	30

TABLE II
GROUPED FREQUENCY DISTRIBUTION TABLE

- The concentration of sulphur dioxide is more than 0.11 ppm in the class intervals 0.12 – 0.16, 0.16 – 0.20, 0.20 – 0.24. Adding the frequencies corresponding to these classes we get

$$2 + 4 + 2 = 8 \quad (1)$$