

Assignment 3

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Abstract—This document contains the solution for Assignment 3 (NCERT Class 10 Exercise 14.2 Q.3)

14.2.3 [NCERT 9] : The relative humidity (in %) of a certain city for a month of 30 days was as follows:

98.1 98.6 99.2 90.3 86.5 95.3 92.9 96.3 94.2 95.1
 89.2 92.3 97.1 93.5 92.7 95.1 97.2 93.3 95.2 97.3
 96.2 92.1 84.9 90.2 95.7 98.3 97.3 96.1 92.1 89.0

TABLE I

- Construct a grouped frequency distribution table with classes 84-86, 86-88, etc.
- Which month or season do you think this data is about?
- What is the range of this data?

Solution:

- The grouped frequency distribution table is given below:

Relative Humidity (in %)	Tally Marks	Frequency
84-86		1
86-88		1
88-90		2
90-92		2
92-94		7
94-96		6
96-98		7
98-100		4
Total		30

TABLE II
FREQUENCY DISTRIBUTION TABLE

- The humidity is very high. Therefore, the season could be monsoon, and the month could be September.
- There is clearly no humidity value below 84.9% and no humidity value above 99.2%. The range of this data is then given by the difference:

$$\text{Range} = 99.2 - 84.9 = \boxed{14.3}$$