

HW

Exercise: M.1

1. Give five examples of data that you can collect from your day-to-day life.

→ Five examples of data that we can gather from our day to day life are:

i) Number of students in our class.

ii) Number of fans in our school.

iii) Electricity bills of our house for last two days/years.

iv) Election result obtained from newspaper.

v) Literacy rate is figures obtained from educational surveys.

Exercise: 14.2

1. The blood groups of 30 students of class VIII are recorded as follows:

A, B, O, O, AB, O, A, B, B, A, O, B, A, O, O,
A, AB, O, AB, A, O, O, AB, B, A, O, B, A, B, O.

Represent this data in the form of a frequency distribution table. Which is the most common, and which is the rarest, blood group among these students?

→

Blood group	A	B	O	AB	Total
No. of	9	6	12	3	30

Most common - O, Rarest - AB

Q2. The distance (in km) of 40 engineers from their residence to their place of work were found as follows:

5	3	10	20	25	11	13	7	12	31
19	10	12	17	18	11	32	17	16	3
7	9	7	8	3	5	12	15	18	3
12	14	2	9	6	15	15	7	6	12

Construct a grouped frequency distribution table with class size 5 for the data given above taking the first interval as 0-5 (5 not included). What main features do you observe from this tabular representation?

Distance (in km)	Tally mark	Frequency
0-5		5
5-10		11
10-15		11
15-20		9
20-25		1
25-30		1
<u>30-35</u>		<u>2</u>
Total		40

It observed that 27 engineers out of 40 lives at a distance not more than 15 km from their residence.

Q3. The relative humidity (in %) of a certain city for a month of 30 days were as follows

98.1 98.6 99.2 90.3 86 95.3 92.9 96.3
 94.2 95.1 89.2 92.5 91 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 92.4 89

Q) Construct a grouped frequency distribution table with classes 84-86, 86-88, etc.

<u>Relative humidity (%)</u>	<u>Frequency</u>
84-86	1
86-88	1
88-90	2
90-92	2
92-94	7
94-96	6
96-98	7
<u>98-100</u>	<u>4</u>
Total	30

(i) Which month or season do you think this data is about?

→ The data appears to be taken in the rainy season as the relative humidity is high.

(ii) What is the range of this data?

→ ~~Range~~ Range $100 - 84.9 = 15.1$