

Practice Assignment 2A

1. The distance (in km) of 30 students from their residence to their school were found as follows:

4 1 2 3 5 1 4 5 3 2 6 2 5 6
6 7 4 1 5 2 2 1 1 6 4 5 3 3
1 2

Construct a grouped frequency distribution table with class size 2 for the data given above taking the first intervals as $0 - 2$

(2 not included). What main feature do you observe from this tabular representation?

2. The temperature (in degree Celsius) of a certain city for two weeks is as follows:

28.1 27.0 19.2 19.3 16.5 16.3 22.9 26.3 24.2 25.1
29.2 29.3 27.1 23.5

- (i) Construct a grouped frequency distribution table with classes $16 - 18, 18 - 20, \dots$
- (ii) Which month or season do you think this data is about?
- (iii) What is the range of this data?

3. Twenty children were asked about the number of hours they studied math in the previous week. The results were found as:

2 6 2 3 5 5 6 4 6 6
3 4 2 6 3 5 4 3 3 2

- (i) Make a grouped frequency distribution table for this data, taking class width 2 and one of the class intervals as $2 - 4$.
- (ii) How many children studied math for 6 or more hours in the week?

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4. A survey conducted by an organization for the cause of illness and death among the children between the ages 1 – 12 (in years) worldwide found the following figure (in %):

S. No.	Causes	Child fatality rate (%)
1	Malnutrition	22
2	Measles, Diarrhea and other epidemics	37
3	Pneumonia	16
4	Neonatal fatalities	11
5	HIV/AIDS	10
6	Other causes	4

- (i) Represent the information given above graphically.
- (ii) Which condition is the major cause of child's ill health and death worldwide?
- (iii) Try to find out, any two factors which play a major role in the cause in (ii) above being the major cause.

5. Given data represents the votes received by 6 candidates in the election for president of Lions club, Delhi.

Candidates	A	B	C	D	E	F
Votes	170	160	140	171	109	250

- (i) Draw a bar graph to represent the polling result.
- (ii) Which candidate won the maximum number of votes?

6. The following table gives total marks obtained by 62 students of IX class in the final examination.

Marks	Number of students
145–155	8
155–165	10
165–175	25
175–185	12
185–195	7

(i) Represent the given information with the help of a histogram.

(ii) How many students scored more than 175 marks?

7. The following observations have been arranged in ascending order. If the median of the data is 60, find the value of x .

29, 32, 48, x , $x + 2$, 69, 72, 78.

8. The table below shows the overtime earned by 30 electrician of an electric meter manufacturing factory. Find the mean overtime earned by them.

Overtime (in Rs.)	Number of electrician
200	5
400	6
600	9
800	4
1000	3
1200	3
Total	30