

# CHAPTER 22

## FREQUENCY DISTRIBUTION AND BAR GRAPHS

### More Questions for Practice

1. The rainfall recorded for 30 years, at a weather station, correct to the nearest mm was as follows:

57    49    66    63    70    62    67    58    48    51  
69    73    80    51    61    59    45    48    52    74  
65    77    73    68    63    58    47    76    72    84

Distribute the data into *eight* class intervals (of same length) and prepare a frequency table. Also, find for how many years the rainfall was 55 mm or more.

2. On the first day, a school bus carried 30 students to a high school. Their ages are as follows:

13    8    9    12    12    16    17    17    13    10  
8    7    9    10    10    9    16    15    8    7  
13    11    6    5    8    6    8    6    7    9

Group the ages into *four* equal classes with the class intervals 4–8, etc., and construct a frequency table. Find the lower and upper limits of the class intervals 16–20.

3. The shoppers who come to a departmental store are marked as: M (man), W (woman), B (boy) and G (girl).

The following list gives the shoppers who came during the first hour in the morning:

W    W    W    G    B    W    W    M    G    G    M    M    W    W    W  
W    G    B    M    W    B    G    G    M    W    W    M    M    W    W  
W    M    W    B    W    G    M    W    W    W    W    G    W    M    M  
W    W    M    W    G    W    M    G    W    M    M    B    G    G    W

Make a frequency distribution table using tally marks. Draw bar graph to represent it.

4. The table, given below, shows the number of copies of a newspaper distributed to households in each year from 2012 to 2017:

Year	2012	2013	2014	2015	2016	2017
Number of Copies (in $\times 1000$ )	240	250	275	290	260	300

Construct a bar graph to illustrate the above information.

## ANSWERS

1.

Class interval (Rainfall in mm)	Tally	Frequency
45–50		5
50–55		3
55–60		4
60–65		4
65–70		5
70–75		5
75–80		2
80–85		2

2.

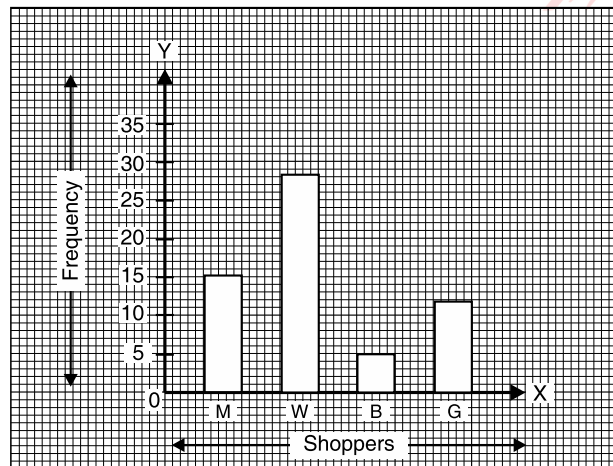
Class interval (Ages in years)	Tally	Frequency
4–8		7
8–12		13
12–16		6
16–20		4

Lower and upper limits of the class interval 16–20 are 16 and 20 respectively.

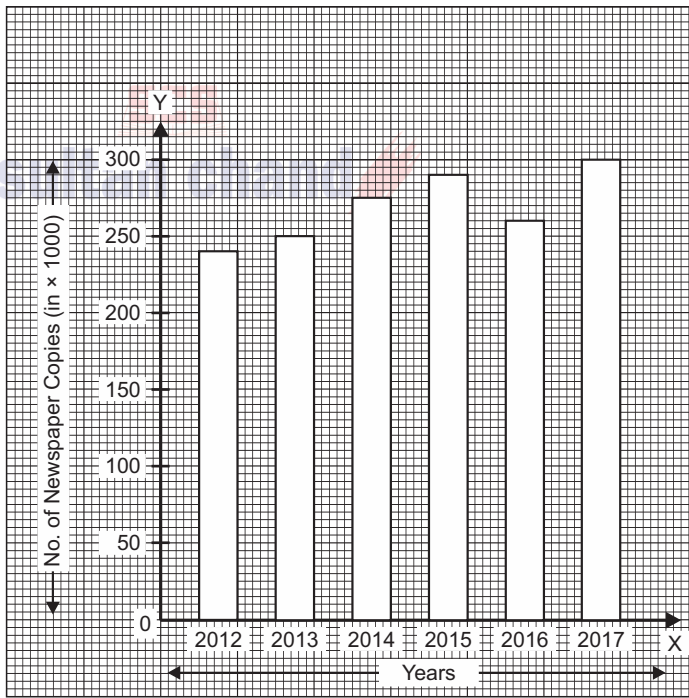
For 22 years, the rainfall was 55 mm or more.

3.

Shopper	Tally	Frequency
M		15
W		28
B		5
G		12



4.



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