SESSION : 12
CLASS : IV
SUBJECT : MATHEMATICS
CHAPTER NUMBER : 17
CHAPTER NAME : DATA HANDLING
SUBTOPIC : BAR GRAPH, EX-17 B

LEARNING OBJECTIVE

- **Enable the students to understand about the bar graph and the use of bar graph in the case arranging different data.**
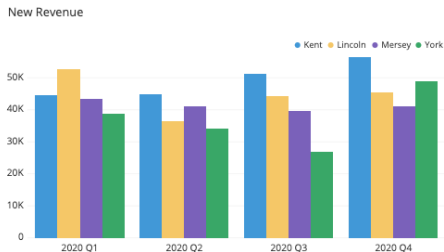
BAR GRAPH

A bar graph is the representation of numerical data in the form of rectangular bars having standard width but variable length according to the scale chosen.

The are two types of bar graphs :

1. **Vertical bar graphs**

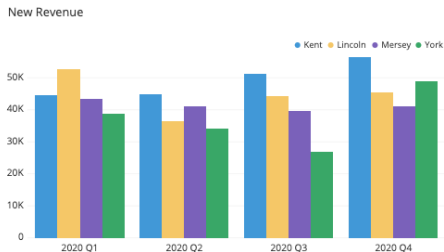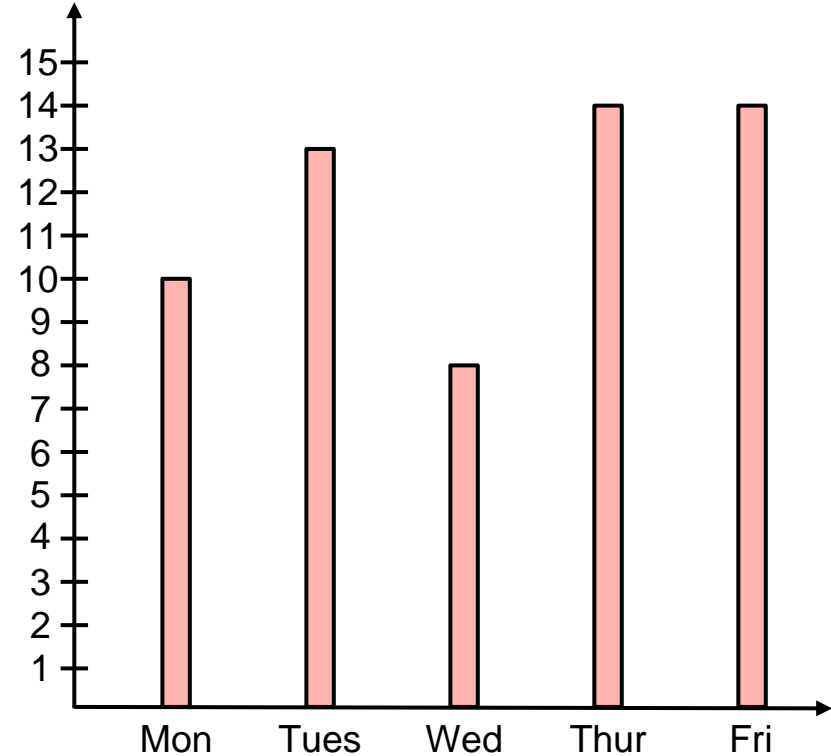2. **Horizontal bar graphs**

New Revenue

BAR GRAPH

Vertical bar graph

Vertical bar graphs are those graphs in which data is represented in vertical bars. The vertical bars are drawn from bottom going upwards.

The graph given alongside is representing the number of people visiting a cinema hall on five different days of a week.
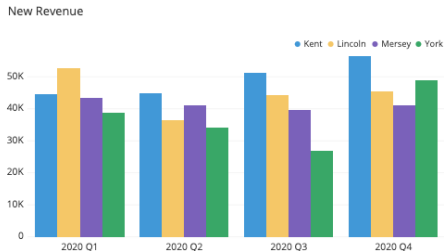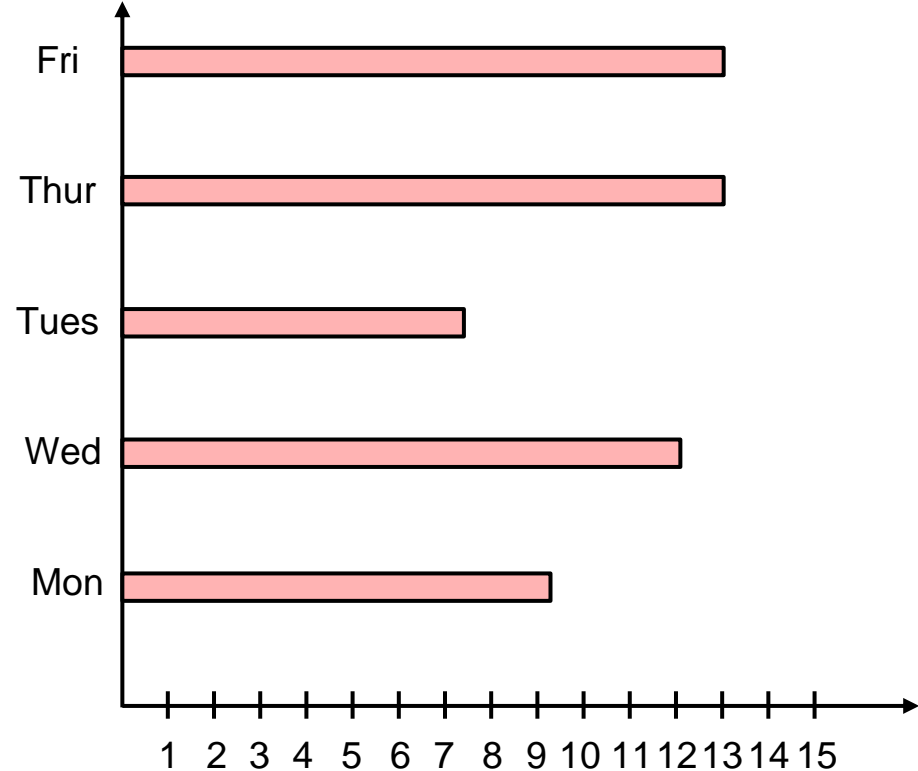
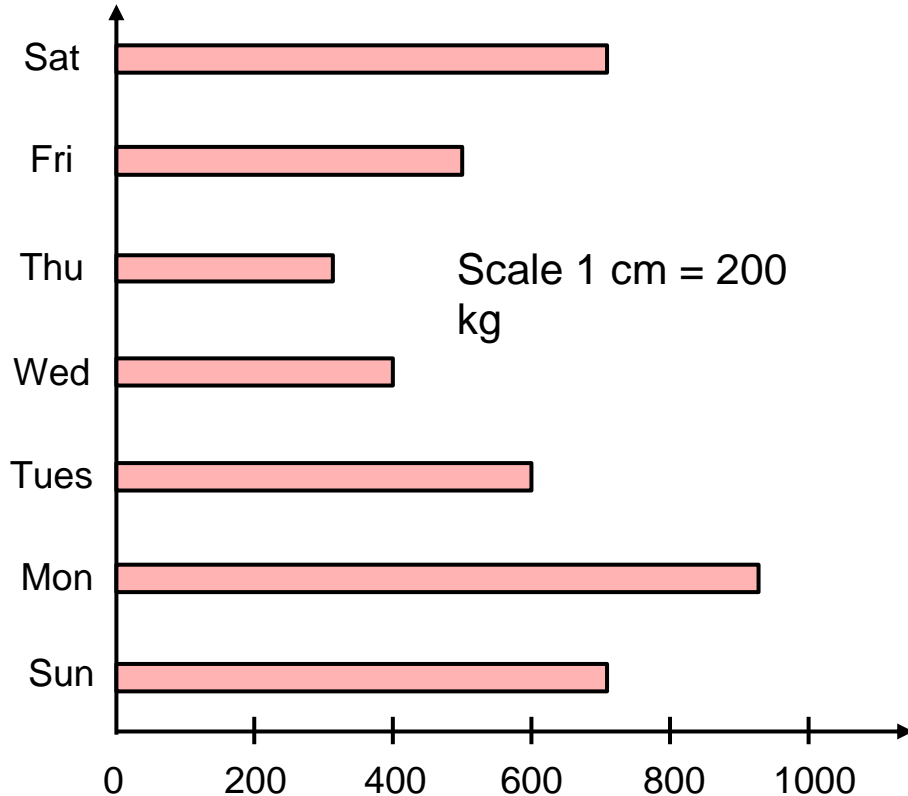New Revenue

BAR GRAPH

Horizontal bar graph

Horizontal bar graphs are those graphs in which data is represented in horizontal bars. The horizontal bars are drawn from left to right.

The graph given alongside is representing the same data as shown in the vertical bar graph.

New Revenue

BAR GRAPH

EXAMPLE Daily sale of sugar in a department store is shown in the bar graph below.

Scale 1 cm = 200 kg

a. Which day has the maximum sale?

Ans. Monday

b. Which day has the least sale?

Ans. Thursday

c. Calculate the total sale of the week.

Ans. 4.100
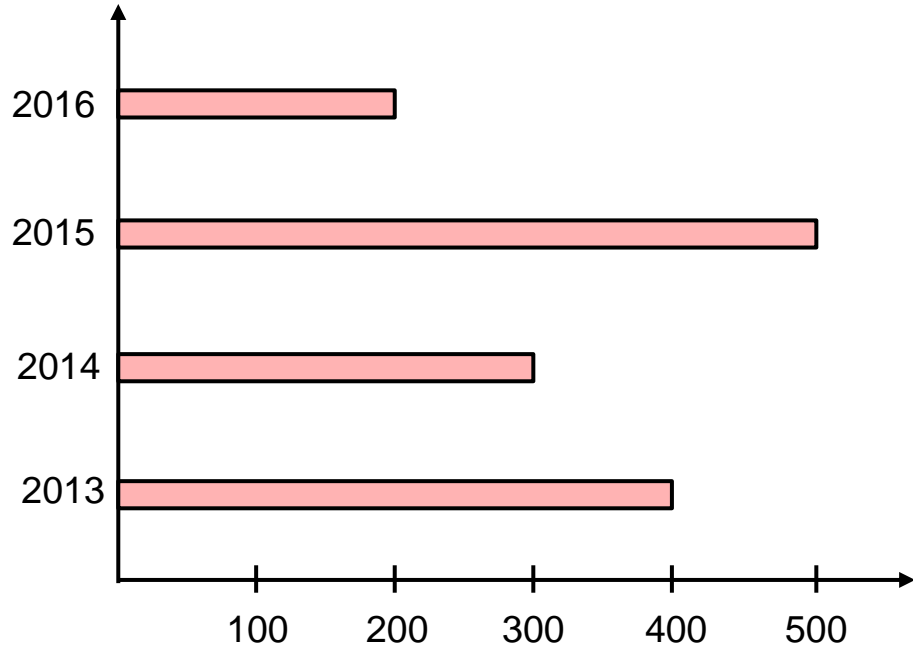
d. Which two days have the same sale?

Ans. Saturday and Sunday

EXERCISE – 17(B)

1. The graph below shows the number of students who participated in a maths Olympiad in the past years.

a. In which year did the maximum number of students appear in the Olympiad?

Ans. 2015

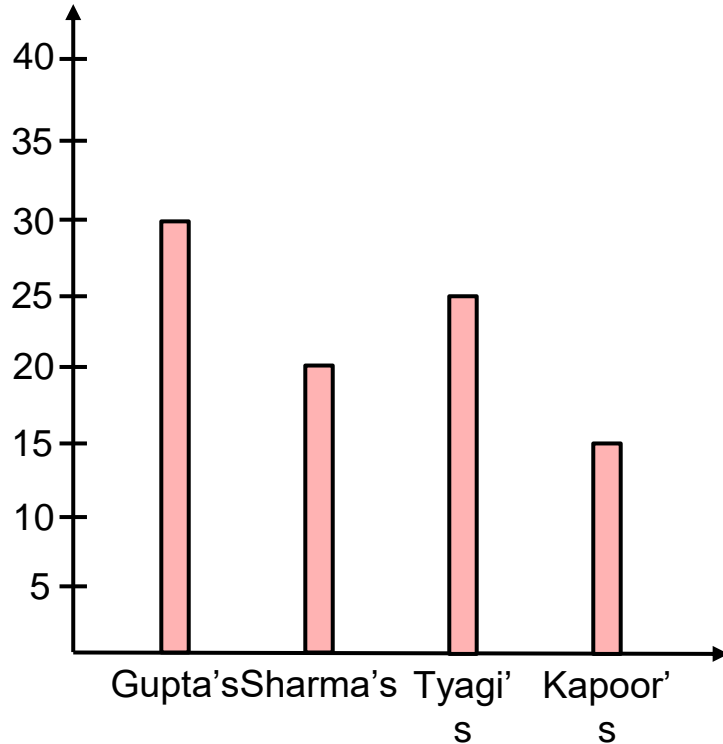b. How many students participated in the Olympiad in 2014?

Ans. 300

c. How many students participated in the Olympiad in 2016 and 2014?

Ans. 500

EXERCISE – 17(B)

2. The graph given alongside shows the consumption of water per day by each family (in L). Answer the following questions with the help of the graph.

a. Which family consumed the least amount of water and how much?

Ans. Kapoor's and 15 L.

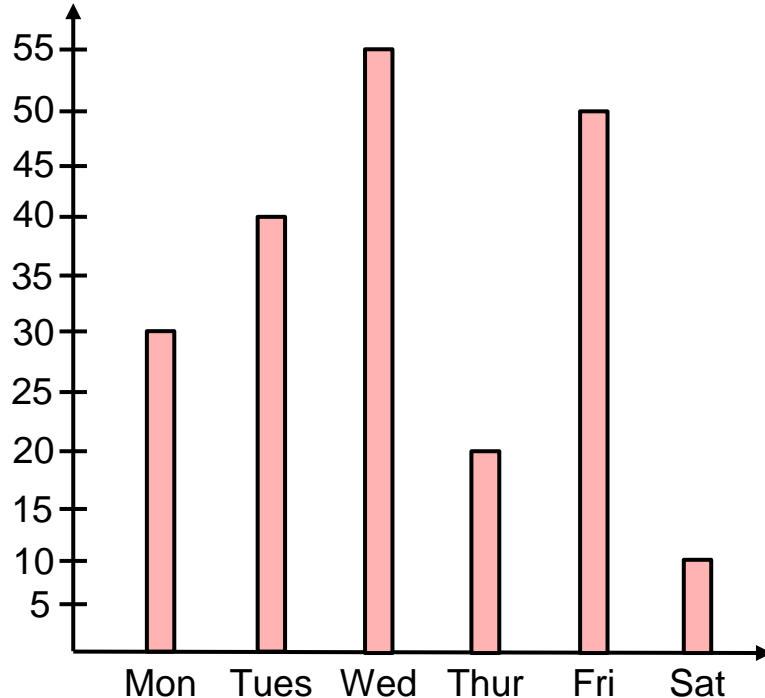b. How much water is consumed by the Gupta's?

Ans. 30 L

c. How much water did the Tyagi's consumed?

Ans. 25L

EXERCISE − 17(B)

3. The graph shows the attendance of 55 class-II students for a week. Answer the following questions with the help of the graph.

a. On which day most of the students attended the school?

Ans. Wednesday.

b. How many students attended the school on Monday?

Ans. 30

c. How many students attended the school on Tuesday and Friday altogether?
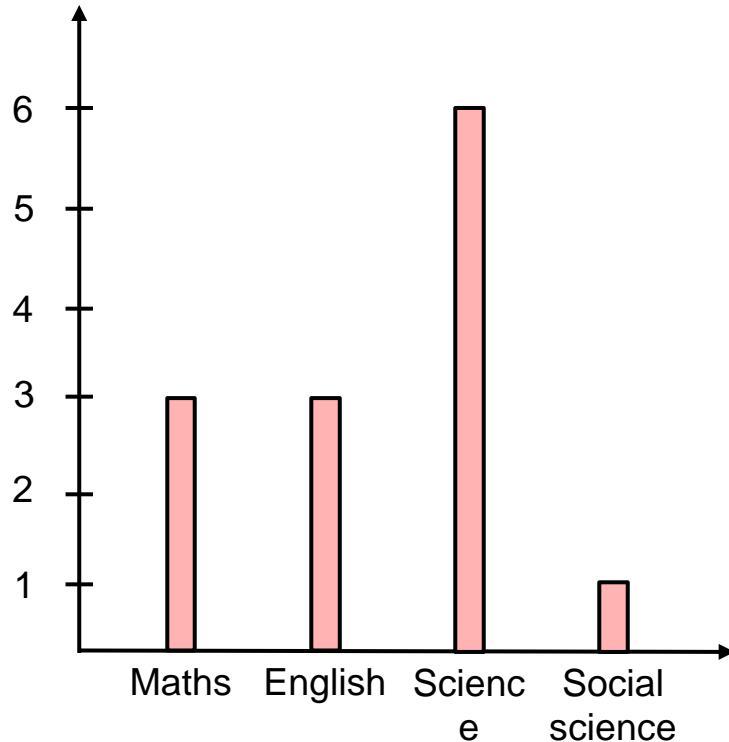
Ans. 90

d. How many students were absent on Tuesday?

Ans. 15

EXERCISE – 17(B)

4. Charles studies for an examination for 12 hours a day in which he divided the time for different subjects. Read the graph and answer the questions the follow:

a. Which subjects does Charles study the most?

Ans. Science

b. How many hours a day does Charles study maths?

Ans. 3 hours

c. How many hours does Charles study English and Social Science per day?

Ans. 4 hours

HOME ASSIGNMENT:

➢ **Complete Exercise – 17 B in your book.**

LEARNING OUTCOME:

Students are able to understand about the bar graph and the use of bar graph in case of arranging different data.

THANKING YOU
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