Bar Graphs

Understanding Notes

- A bar graph is a pictorial representation of data using bars of equal width.
- The length or height of each bar represents the frequency or value of the item.
- Bars can be drawn vertically or horizontally.
- The bars are drawn with equal spacing between them.
- The x-axis represents the categories and the y-axis represents the frequency or values.
- Bar graphs help to compare different sets of data easily and quickly.
- Important points to draw a bar graph:
 - \succ Choose a suitable scale for the y-axis.
 - Draw bars of equal width for each category.
 - Leave equal gaps between bars.
 - Label the graph properly (title, x-axis, y-axis).

Different Types of Examples with Solutions

Example:

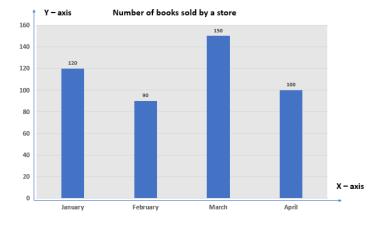
Drawing a Simple Bar Graph

The number of books sold by a store in four months is:

- January: 120 March: 150
- February: 90 April: 100

Solution:

- Draw x-axis and y-axis.
- Mark months on the x-axis and number of books on the y-axis.
- Choose a scale of 1 unit = 20 books.
- Draw bars up to heights 120, 90, 150, 100.

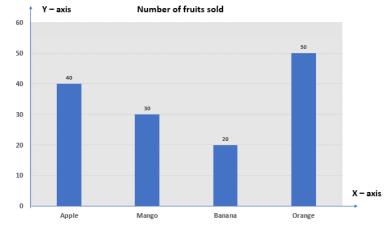


Example:

Interpreting a Bar Graph

A bar graph shows the number of fruits sold:

- Apple: 40
- Mango: 30
- Banana: 20
- Orange: 50



Which fruit was sold the most?

Solution:

• Orange was sold the most as it has the tallest bar (50).

Example:

Drawing a Double Bar Graph

Marks of two students in subjects:

• Math: 80 and 70

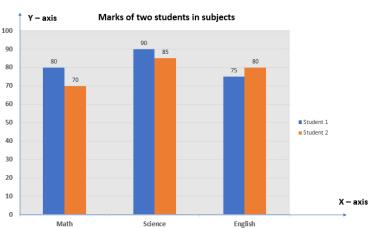
• Science: 90 and 85

Solution:

- Draw two bars for each subject.
- Use different colors or shading to show the two students.
- Label the x-axis with subjects and y-axis with marks.

Summary Points

- Bar graphs show data visually using equal-width bars.
- The height or length of each bar represents the value or frequency.
- Bars must have equal gaps and be of the same width.
- Choose an appropriate scale depending on the data.
- Bar graphs help in easy comparison between different groups.



English: 75 and 80