

ACTIVITY -3

TOPIC: DATA HANDLING

TITLE: REPRESENTATION OF DATA

1. **What we have to do?**

To compare the marks obtained in different subjects by a student in the first and second term examination (out of 100) by drawing a double bar graph.

2. **What is required?**

Graph sheet, sketch pens, a pair of scissors and geometry box

3. **How much time is required?**

30 - 40 minutes

4. **What do you need to know?**

Knowledge about Perpendicular lines, vertical line, horizontal line and Scale.

5. **How will you proceed?**

The marks obtained by a student in different subjects in first and second term examination (out of 100) are as given below:

SUBJECT	ENGLISH	SOCIAL STUDIES	MATHEMATICS	SCIENCE	HINDI
1 ST TERM	70	65	90	70	65
2 ND TERM	50	75	95	75	65

- Draw two perpendicular lines. Name the horizontal line as X-axis and the vertical line as Y-axis and the origin as 0.
- Write the subjects on X-axis and marks obtained by the students on Y-axis, keeping equal distance between bars
- Take suitable scale for representing marks, say 1 cm represent 10 marks.
- Draw bars of equal width say 1 cm and height according to the marks obtained in different subjects in first term examination and second term examination and keep the space between the bars uniform.
- Colour the bars differently for both the terms, say red for first term marks and purple for second term marks as shown in Fig.1:

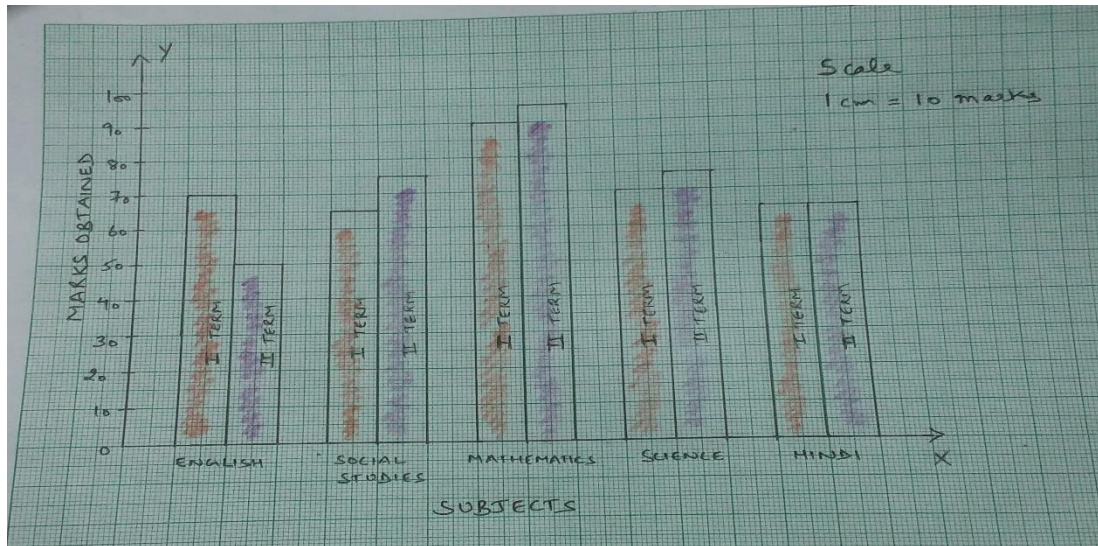


Fig.1

6. What have you observed?

- Performance in **Social studies, Mathematics** and **Science** is better in second terminal as compared to the first terminal. _____(True/False)
- Performance in **English** has come down in Term II. _____(True/False)
- Is the performance in **Hindi** constant? _____(True/False)

7. What have you learnt?

8. Extended Activity

A student is suggested to show her own marks in different subjects in mid terminal examination and compare them with the marks of his/her friend in the same examination by drawing double bar graph.

Real life Applications:

The above concept is used in our day-to-day life incidents viz. understand and using information, in banking operations, sports, market place, stock market, Accounting etc....