Data Handling

Data:

- Data refers to any information collected in the form of numerical figures
- Data handling deals with collecting data, analysing, presenting it and drawing inferences from it
- Data is represented through graphs for better visibility and presentation
- Raw data : data available in an unorganized form
- Data can be represented graphically by : pictograph, bar graph, double bar graph, Histogram and pie chart
- Bar graph: display of information using bars of uniform width, their heights being proportional to the respective values

double Bar graph : a bar graph to show and compare two sets of data simultaneously

Subject	Tally Marks	Number of Students
Art	$\bowtie \square$	7
Mathematics	₩	5
Science	THJ I	6
English	1111	4

- The number of tallies before each subject gives the number of students who like that particular subject.
- This is known as the frequency of that subject.

Organizing data

- Raw data can be grouped and presented in a systematic manner through grouped frequency distribution
- Frequency refers to the number of times a particular observation occurs in the given data
- When data is very large it can be arranged in groups ; each group is called as class interval or class

Frequency distribution

- table showing frequencies of various observations or class intervals
- Upper value of a class interval is called as upper class limit
- Lower value is called lower class limit
- Width or Size of class interval = Upper class limit lower class limit
- Difference between lowest and highest observation in the data : range
- class mark: mid value of a class interval= upper class limit + lower class limit

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- Continuous class intervals : upper limit of class interval coincides with lower limit of next class
- Discontinuous class interval : upper limit of class interval does not coincide with lower limit of next class

