

What is data handling?

- Data handling is the way in which Data can be represented graphically to give a clear idea of what it represents. It is easier to interpret and organize data using pictorial representation.
- Data handling includes bar graph, pictograph and tally marks.

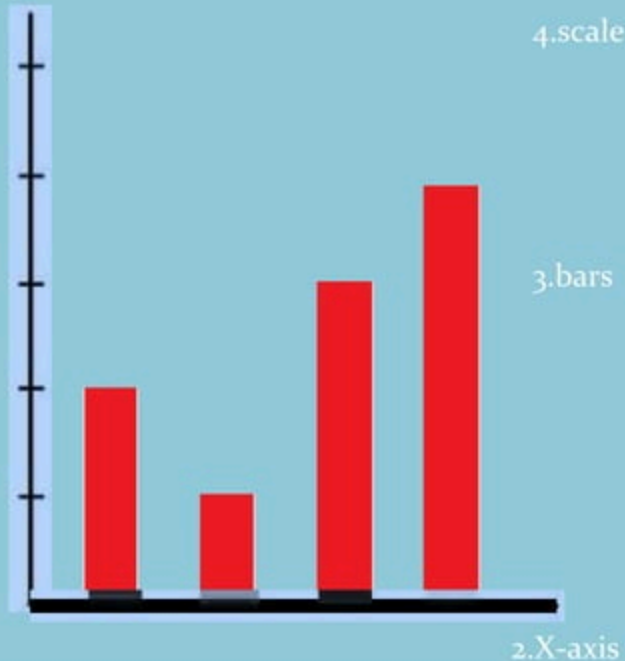
What is a bar graph?

- It is the way of representing data visually. Bars are of uniform width and can be drawn horizontally or vertically with equal spacing between them. The length of each bar represents the given number frequency.



Parts of a bar graph

1.Y-axis



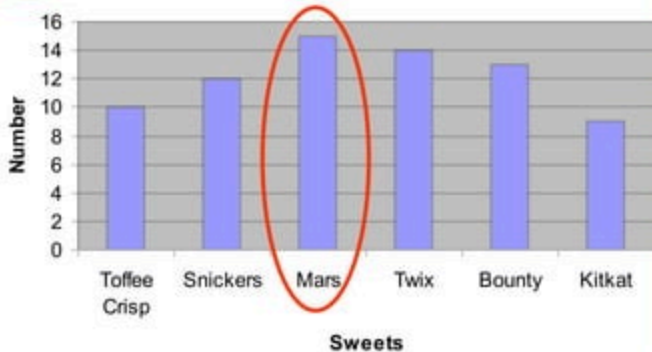
Parts of a bar graph

1. Y-axis: The line on a graph that runs vertically (up-down) through zero. It is used as a reference line so you can measure from it.
2. X-axis: The line on a graph that runs horizontally (left-right) through zero. It is used as a reference line so you can measure from it.
3. Bars: They can be horizontal or vertical. Bars of a bar graph are used to show how large each value is.
4. Scale: A scale on a graph is what we use to measure the distance between the given coordinates.

This is an example of a bar graph



Sweets Sold on a Monday



It is easy to answer this question from a graph.

There is only one set of data on this graph.

What is the most popular sweet bought on Mondays?

Mars

What are pictographs?

- The representation of an information through pictures is called a pictograph. Pictographs use relative sizes or repetitions of the same icon, picture, or symbol to show comparison. Also called pictogram, pictorial chart, pictorial graph, or picture graph.



Example of pictographs



Represents two books

Badgers



Tigers



Peacocks



Elephants



Pigs



Spiders









What is a tally chart?

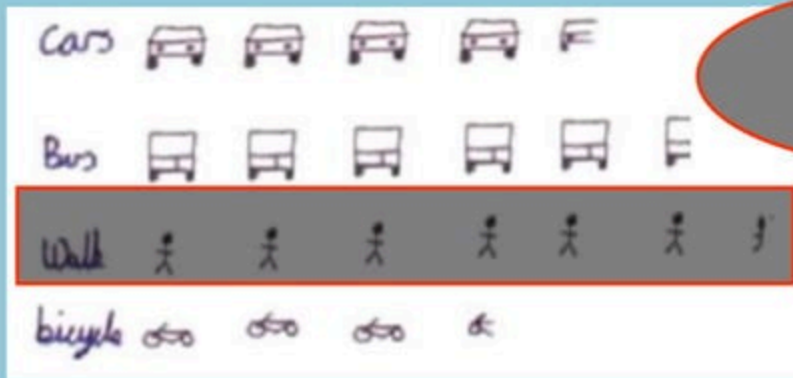
- A method of counting frequencies, according to some classification, in a set of data. For ease of counting, every fifth observation is represented by a diagonal line crossing the previous four to make a five-barred gate. Tally charts are often used with grouped observations

Favorite Pets		
Pet	Tally Marks	Number
		10
		4
		6

Solved questions-

Reading Group	Number of books Read	Frequency
Badgers		16
Tigers		14
Peacocks		23
Elephants		4
Pigs		2
Spiders		13

Pictograms



Key:
picture = 10 people

How many children walk to school?

$$(6 \times 10) + 5 =$$

65

Ekta is asked to collect data for size of shoes of students in her Class VI. Her findings are recorded in the manner shown below :

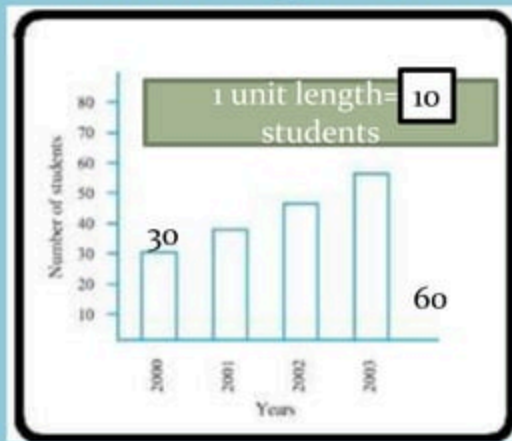
5	4	7	5	6	7	6	5	6	6	5
4	5	6	8	7	4	6	5	6	4	6
5	7	6	7	5	7	6	4	8	7	

Ekta prepared a table using tally marks.

Shoe size	Tally marks	Number of students
4		5
5		8
6		10
7		7
8		2

- the size of shoes worn by the maximum number of students. 6
- the size of shoes worn by the minimum number of students. 8

Read the adjoining bar graph showing the number of students in a particular class of a school.



- a) What is the scale of this graph? 1 unit length = 10 students
- b) How many new students are added every year? 10 students
- c) Is the number of students in the year 2003 twice that in the year 2000? yes