

Frequently Asked Questions

1. What do you mean by bar chart or bar diagram?

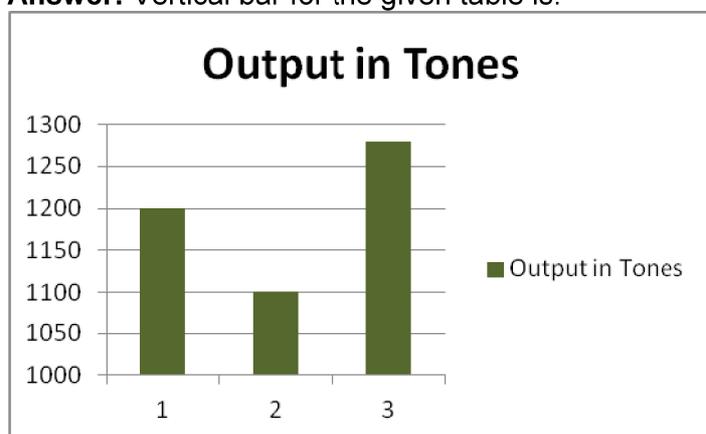
Answer: A 'bar chart' is a chart with rectangular bars, with their lengths proportional to the values that they represent. The bars can be plotted vertically or horizontally.

2. Construct a vertical bar chart using the following table.

This table shows information about factories and their production capacity of 'output in tonnes'.

Factory No.	Output in Tonnes
1	1200
2	1100
3	1280

Answer: Vertical bar for the given table is:



3. What is the difference between vertical bar chart and horizontal bar chart?

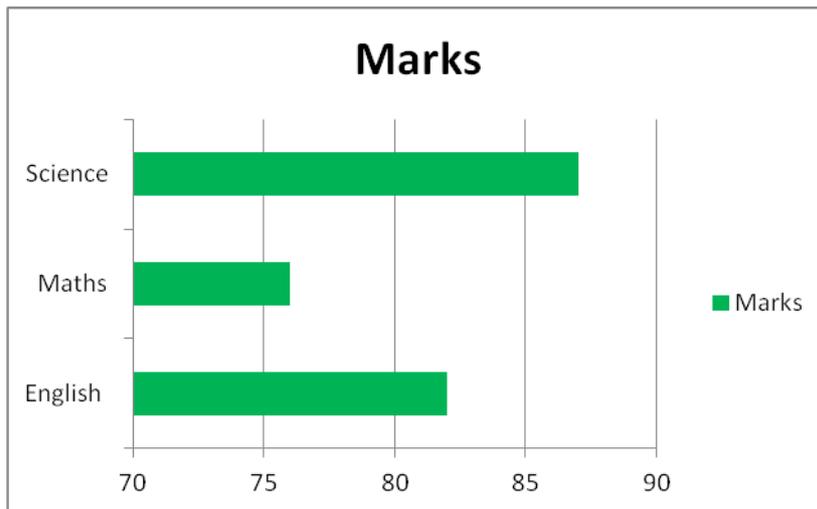
Answer: A usual form of bar diagram that depicts the value of a certain item on the vertical axis is known as vertical bar whereas a diagram where a bar is shown horizontally instead of vertically which is the usual practice is known as horizontal bar.

4. Construct a horizontal bar chart using the following table.

This table shows information about the marks of a student in three subjects.

Subjects	Marks out of 100
English	82
Maths	76
Science	87

Answer: Horizontal bar of the given data are as follows:



5. Explain multiple bar diagram.

Answer: When two or more interrelated series of data are depicted by a bar chart, such a diagram is known as a 'multiple bar diagram'.

6. What do you mean by deviation bar diagram?

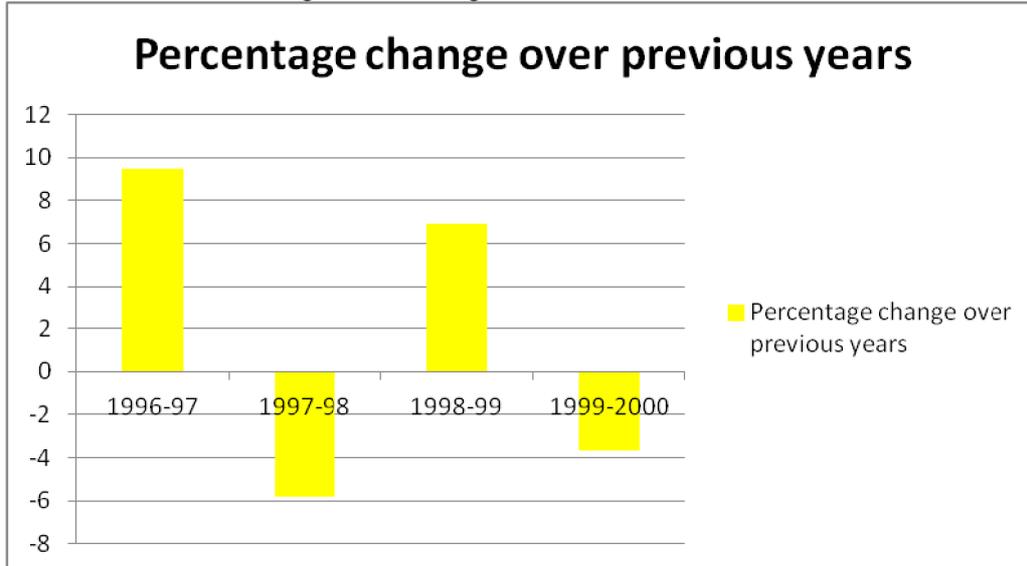
Answer: Deviation bars are used to show both positive and negative values. For instance, let us consider the net profit data for a company over several years. It is possible that in some years the company, instead of earning a net profit, might have sustained net loss. In such cases, the data on net profit will be displayed above the x-axis or the base line, and the net loss will be displayed below the x-axis of the base line.

7. Construct a deviation diagram for the following data:

The data table shows, the data related to the rates of change (percent) in agricultural production for a few years.

Years	Percentage change over previous years
1996-97	9.5
1997-98	-5.8
1998-99	6.9
1999-2000	-3.7

Answer: Deviation diagram for the given table are as follows:



8. What do you mean by Component bar diagram?

Answer: The diagram that shows subdivisions or components in a single bar is known as component bar diagram. It is also known as sub divided diagram.

9. Why subdivided bar diagrams should not be used when there are too many components or subdivisions?

Answer: Subdivided bar diagrams should not be used when there are too many components or subdivisions for two reasons:

- it may be very difficult to provide so many subdivisions particularly when their magnitudes are small
- it may be difficult to understand and interpret such a diagram

10. What is duo-direction bar diagram?

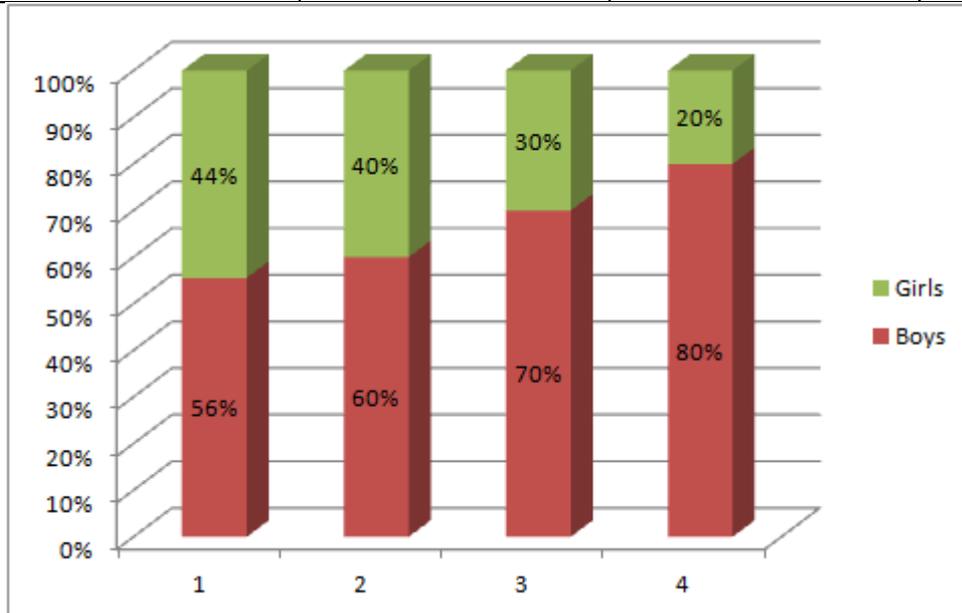
Answer: Duo-direction bar diagram is a diagram on both sides of the x-axis. The diagram will show one component of the data above the x-axis and the other component below the x-axis. The two components taken together, give the total value of the item displayed.

11. Construct Component bar diagram with the help of given data.

College Year	Boys	Girls	Total students
1	200	160	360
2	180	120	300
3	168	72	240
4	144	36	180

Answer: To calculate the percentage of boys and girls in the table, we will be able to generate the following table which shows the percentage of boys and percentage of girls every year:

College Year	Boys	Girls	Total students
1	56%	44%	100%
2	60%	40%	100%
3	70%	30%	100%
4	80%	20%	100%



12. Explain pyramid diagram.

Answer: Pyramid diagram shows a number of horizontal bars, arranged in such a manner as to give an appearance of a pyramid. Typically, such diagrams are suitable to present data on population, occupation, education and so forth.

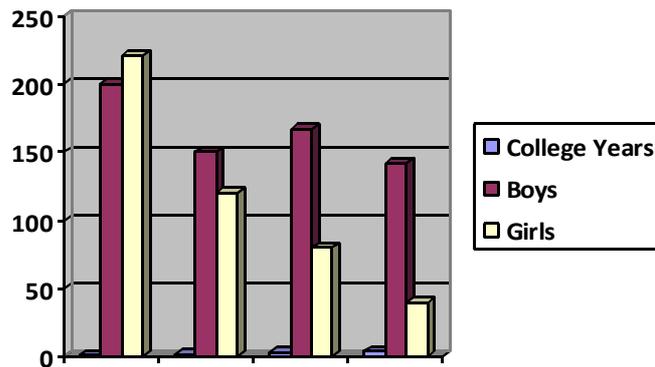
13. What do you mean by sliding bar diagram?

Answer: This is similar to a duo-directional bar diagram, the only difference being that the duo-direction bar diagram is based on absolute values, whereas the sliding bar diagram is based on percentages.

14. Construct a multiple bar using the following table?

College Year	Boys	Girls
1	200	220
2	150	120
3	167	80
4	142	40

Answer: Multiple bar for the given data is:



15. What do you mean by broken bar diagram?

Answer: Broken bar diagrams are used in cases where there are wide variations in values and need to be represented in the same diagram.