

Construction of Bar Graphs

A. Choose the correct answer:

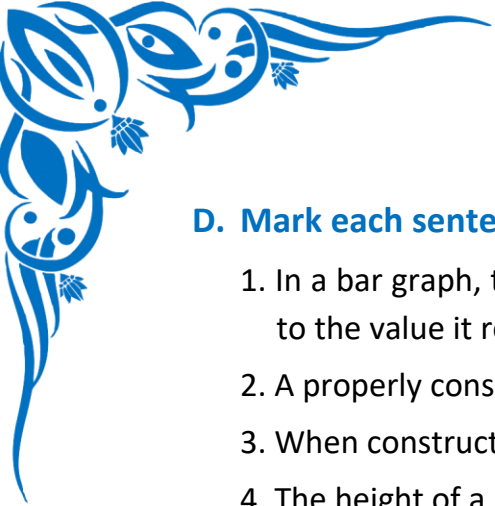
1. When constructing a bar graph, which axis usually represents the categories
 - a) x-axis
 - b) y-axis
 - c) both axes
 - d) none
2. When drawing bars in a bar graph, what must be kept uniform
 - a) Length of bars
 - b) Width of bars
 - c) Color of bars
 - d) Title of bars
3. In constructing a bar graph, the scale on the y-axis must be
 - a) Different for each bar
 - b) Uniform throughout
 - c) Increasing irregularly
 - d) Decreasing
4. The distance between the bars in a bar graph must be
 - a) Equal
 - b) Decreasing
 - c) Increasing
 - d) Random
5. What information should be given along with a bar graph
 - a) Title
 - b) Axis labels
 - c) Scale
 - d) All of these

B. Write the Missing Terms to Complete the Sentences:

1. In a bar graph, the _____ represents the quantity of each category.
2. To construct a bar graph, a proper _____ must be chosen for the vertical axis.
3. The _____ of the bars in a bar graph must remain equal.
4. Categories are usually plotted along the _____ axis.
5. The _____ of a bar graph explains what the graph is about.

C. Figure out the answers to these questions:

1. Construct a bar graph showing the favorite fruit of students Mango 15, Apple 20, Banana 10, Orange 12.
2. What scale will you choose if the maximum value in the data is 80 and you have to draw a bar graph.
3. Explain why the scale must be uniform while constructing a bar graph.
4. If a bar graph is drawn without labeling the axes, what problems may occur in interpreting it.
5. Draw a bar graph for the data Days Monday to Friday and Attendance 45, 48, 43, 40, 50.



D. Mark each sentence with a True (✓) or False (X):

1. In a bar graph, the width of each bar can vary according to the value it represents _____
2. A properly constructed bar graph must have a title _____
3. When constructing a bar graph, it is not necessary to label the axes _____
4. The height of a bar shows the quantity of the item _____
5. It is acceptable to have overlapping bars in a bar graph _____

E. Challenge yourself with these questions:

1. Name two common mistakes students make when constructing a bar graph
2. What is the importance of choosing a correct scale while drawing a bar graph
3. Draw a rough bar graph showing marks scored by a student in five subjects out of 100
4. How can a bar graph help in comparing different items quickly
5. Suggest a scale for constructing a bar graph if the data values are between 0 and 300