

## Bar Graphs

### A. Choose the correct answer:

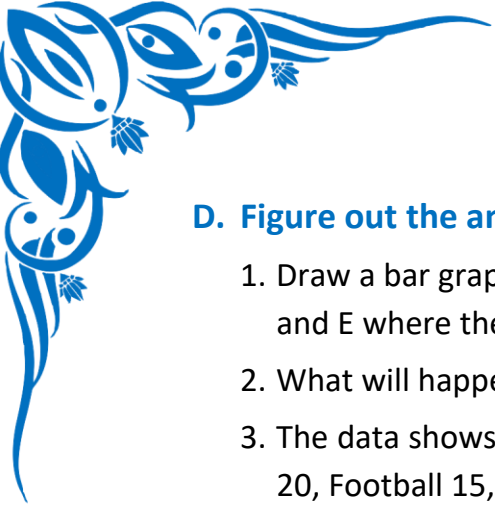
1. What is represented on the x-axis of a bar graph
  - a) Frequency
  - b) Categories
  - c) Height
  - d) Width
2. In a bar graph, the height of a bar represents
  - a) Width of category
  - b) Category name
  - c) Frequency or value
  - d) Number of bars
3. In a bar graph, the width of the bars should be
  - a) Proportional to the data
  - b) Equal for all bars
  - c) Unequal for variety
  - d) As wide as possible
4. A bar graph is used to represent
  - a) Continuous data
  - b) Discrete data
  - c) Both continuous and discrete data
  - d) None of these
5. In a bar graph, if the bars are drawn horizontally, it is called
  - a) Vertical bar graph
  - b) Pie chart
  - c) Horizontal bar graph
  - d) Line graph

### B. Write the Missing Terms to Complete the Sentences:

1. A bar graph uses \_\_\_\_\_ bars to represent data.
2. The \_\_\_\_\_ of a bar graph shows the quantity or frequency.
3. The bars in a bar graph are drawn at \_\_\_\_\_ distances from each other.
4. A bar graph is useful for comparing \_\_\_\_\_ sets of data.
5. A \_\_\_\_\_ bar graph displays two sets of data side by side.

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

1. In a bar graph, bars can touch each other \_\_\_\_\_
2. The length of the bar represents the value of the data \_\_\_\_\_
3. Bar graphs are best suited for continuous data \_\_\_\_\_
4. In a bar graph, all bars must be of equal width \_\_\_\_\_
5. A double bar graph can compare two sets of related data \_\_\_\_\_



**D. Figure out the answers to these questions:**

1. Draw a bar graph to represent the number of books read by students A, B, C, D, and E where the numbers are 5, 8, 6, 9, 4 respectively.
2. What will happen if the bars in a bar graph are drawn with different widths?
3. The data shows the number of students participating in different sports Cricket 20, Football 15, Basketball 10, Badminton 5 Draw a bar graph.
4. Explain why the gap between bars is important in a bar graph.
5. Identify and correct the mistake if a bar graph is drawn without equal spacing between bars.

**E. Challenge yourself with these questions:**

1. What should be the two main components labeled while making a bar graph?
2. Draw a rough bar graph to show the number of chocolates sold in five months January to May.
3. Write two differences between a bar graph and a histogram.
4. Give two real-life examples where bar graphs are useful.
5. Why is a bar graph easier to understand compared to a table of numbers?