



Aesthetic and Artistic Considerations

A. Choose the correct option.

1. **What is the main purpose of a pictograph in data handling?**
 - a) To confuse the reader
 - b) To decorate data tables
 - c) To visually represent data using pictures or symbols
 - d) To write long explanations
2. **Which of these is NOT a good reason to use colors and shapes in graphs?**
 - a) To make the data attractive
 - b) To confuse the readers
 - c) To help in better understanding
 - d) To highlight important data
3. **Which tool is commonly used to represent data aesthetically in charts?**
 - a) Hammer
 - b) Graph paper
 - c) Calculator
 - d) Pencil sharpener
4. **A bar graph should be:**
 - a) Crowded with patterns and designs
 - b) Easy to read and well-spaced
 - c) Made only with bright colors
 - d) Without labels
5. **Which of these graphs is most suitable to show parts of a whole?**
 - a) Line graph
 - b) Pictograph
 - c) Pie chart
 - d) Table

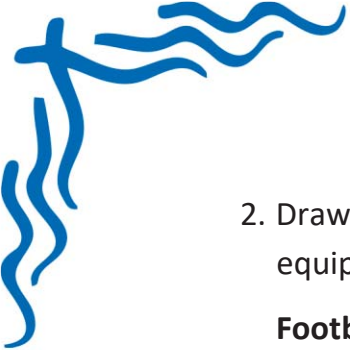
B. Write the Missing Terms to Complete the Sentences:

1. A _____ graph uses bars of different heights to represent data.
2. Data should be presented in a _____ and neat manner.
3. Using _____ in graphs can help distinguish different categories.
4. An _____ graph uses pictures or symbols to show numbers.
5. Data handling involves collecting, organizing, and _____ data.

C. Figure out the answers to these questions:

1. Observe the Bar Graph given below (Teacher may draw a bar graph showing number of books read by 5 students).

Write the name of the student who read the most books.



2. Draw a pictograph to represent the following data on number of sports equipment sold:

Football – 5, **Bat** – 4, **Basketball** – 3, **Skipping rope** – 2.

(Use one ball  to represent 1 item)

3. **Creative Task:** Create your own artistic data table using colors and shapes for the following:

Favorite fruits of your classmates (Minimum 5 categories)

4. Interpret the Graph: (Teacher gives a simple pie chart showing favorite subjects)

Which subject is liked by the least number of students?

5. **Short Answer:** Why is it important to keep graphs and charts simple and clean?

6. **Application-Based:** You are organizing a school exhibition. How will you display survey results about students' favorite stall? Mention one aesthetic element you'd use.

7. **Think and Write:** How does the use of colors in a graph help a person who is looking at it for the first time?

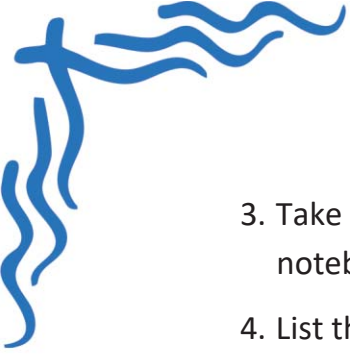
8. **Design-Based Task:** Draw an artistic border around a tally chart that shows types of trees planted in your school. Keep it clean and simple.

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

1. Aesthetic presentation of data helps in making information more understandable. ☐
2. Overloading a graph with too many decorations improves its readability. ☐
3. A simple, organized graph is more effective than a confusing colorful one. ☐
4. Pie charts are always used to show changes over time. ☐
5. Colors and icons can be used to highlight patterns in data. ☐

E. Challenge yourself with these questions:

1. Design a poster using chart paper that shows the results of your class survey on "Favorite Cartoon Characters". Make it both informative and artistic.
2. Imagine you are a magazine designer. How will you present weather data for a week in a stylish and readable manner?



3. Take a newspaper/magazine, cut out a graph or data table, and paste it in your notebook. Then, comment on its aesthetic appeal.
4. List three things you should remember to make a graph look neat and artistic.
5. Choose any one of your daily routines (e.g., study, play, TV) and create a data chart to show how much time you spend on each activity. Use creative colors or symbols to beautify it.