

# Data Detective Work Review

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## Understanding Scientific Data

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Answer the following questions based on the lesson about data visualization and the scientific method.

1. What is one type of graph that scientists use to represent data?

- A. Bar graph
- B. Circle graph
- C. Pie chart

2. Why is it important to present data clearly?

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3. The heart of the discerning gets \_\_\_\_, and the ear of the wise seeks knowledge.

4. Graphs can help scientists understand their experimental results better.

- True       False

5. What does organizing data help scientists do?

- A. Make mistakes
- B. Understand results
- C. Ignore information

6. What did your graph teach you about the paper towels you tested?

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7. Using \_\_\_\_ and graphs can make scientific results easier to analyze.

8. Only tables are used to present scientific data; graphs are not necessary.

- True       False

9. Which type of graph is best for showing changes over time?

- A. Bar graph
- B. Line graph
- C. Pie chart

10. How can we make our experiment results easy to understand?

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### Answer Key

1. Bar graph   2. Clear data presentation helps others understand the results easily and accurately.   3. knowledge   4. True   5. Understand results   6. My graph showed which paper towel absorbed the most water and which absorbed the least.   7. tables   8. False   9. Line graph   10. We can label our graphs clearly and use colors or symbols to differentiate data.