

# Data Collection Day 3 Review

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## Understanding Independent Scientific Investigation

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

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

Answer the following questions based on your understanding of the lesson.

1. What is one objective for the final data collection?

- A. To finish quickly
- B. To ensure sufficient trials for reliable results
- C. To skip measurements

2. A prudent man acts with \_\_\_\_, according to Proverbs 13:16.

3. It is important to avoid bias in data collection.

- True       False

4. Why is it essential to conduct multiple trials in a scientific investigation?

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5. What might cause unreliable results in data collection? Circle the correct answer.

Consistent measurement techniques

Not repeating trials

Careful planning

6. What challenges did you encounter during data collection?

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7. What does scientific rigor mean in the context of data collection?

- A. Being fast and efficient
- B. Being careful and thorough
- C. Being random and careless

8. It is important to develop \_\_\_\_ and methodical research skills.

9. Following a methodical approach can improve the quality of research.

- True       False

10. How can we ensure our data is accurate during the collection process?

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### Answer Key

1. To ensure sufficient trials for reliable results 2. knowledge 3. True 4. Multiple trials help to ensure that the results are consistent and reliable. This reduces the chance of errors affecting the outcome. 5. Not repeating trials 6. I faced difficulties in maintaining consistent measurements and sometimes had to deal with unexpected variables in my experiment. 7. Being careful and thorough 8. patience 9. True 10. We can ensure data accuracy by using consistent measurement techniques and repeating trials to confirm results.

