

Introduction to Physical Science ▪ 1.4 Review and Reinforce**Mathematics and Science****Understanding Main Ideas**

Answer the following questions in the spaces provided.

1. Why do scientists have to rely on estimates?

2. Why are both accuracy and reproducibility important in making a measurement?

3. What do the significant figures in a measurement include?

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term in the left column.

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|------------------------------|---|
| _____ 4. estimate | a. how close together a group of measurements are |
| _____ 5. reproducibility | b. how close to the actual value a measurement is |
| _____ 6. precision | c. all of the digits that have been measured accurately and one digit that has been estimated |
| _____ 7. significant figures | d. an approximation of a number based on reasonable assumptions |
| _____ 8. accuracy | e. measure of exactness of a measurement |