

## CHAPTER 3 REVIEW

### *Measurements and Calculations*

#### SECTION 1

**SHORT ANSWER:** Answer the following questions in the space provided.

1. Distinguish whether each of the following is an example of observation and data, a theory, a hypothesis, a control, or a model:

\_\_\_\_\_ observation and data

\_\_\_\_\_ observation and data

\_\_\_\_\_ control

\_\_\_\_\_ hypothesis

- a. A scientist team records the rainfall in inches per day in a prescribed area of the rain forest. The square footage of vegetation and relative plant density per square foot are also measured.
- b. The intensity, duration, and time of day of the precipitation are noted for each precipitation episode. The types of vegetation in the area are recorded and classified.
- c. The information gathered is compared with the data on the average precipitation and the plant population collected over the last 50 years.
- d. The information gathered by the scientist team indicates that rainfall has decreased significantly. They propose that deforestation is the primary cause of this phenomenon.

2. "When 100 g of a white, crystalline sugar are dissolved in 100 mL of water, the solution is observed to freeze at  $-0.24^{\circ}\text{C}$ , not  $0.0^{\circ}\text{C}$ . The volume is denser than pure water." Which parts of these statements represent quantitative information, and which parts represent qualitative information?

Quantitative values include the mass of sugar, volume of water, and observed

freezing point. Qualitative properties are the color and state of the sugar and the claim of greater density.

3. Compare and contrast a model with a theory.

Theories are broad generalizations used to explain observations. Models are

a physical object used to illustrate or explain complex concepts or are explanation of how phenomena occur and how data and events are related.

# Concept Review Measurements And Calculations In Chemistry Answers

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