

Chapter 1, continued

3. Which unit of measurement is most practical for measuring the crane in Figure 22?
- a. centimeters (cm)                      c. meters (m)  
b. kilometers (km)                      d. millimeters (mm)
4. Before you can determine how many lenses will fit into a moving crate, what information do you need?

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\_\_\_\_\_

\_\_\_\_\_

5. Which of the following is NOT a valid unit of measurement for volume?
- a. milliliter                                  c. microgram  
b. cubic centimeter                      d. liter
6. Would you measure the mass of a car in milligrams? Why or why not? If not, which unit would you use?

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7. The \_\_\_\_\_ is the SI unit for temperature, but scientists often use degrees Celsius.

**Derived Quantities** (p. 26)

8. List two kinds of derived quantities.

\_\_\_\_\_

\_\_\_\_\_

9. What formula would you use to find out how much carpet it would take to cover the floor of your classroom? Write the equation.

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\_\_\_\_\_

**Chapter 1, continued**

**10.** How could you calculate the mass per unit of volume of the gear in the right column of page 27?

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**Safety Rules!** (p. 27)

Match the safety icon in Column B to the correct description in Column A, and write the corresponding letter in the space provided.

| Column A                           | Column B  |
|------------------------------------|---|
| ___ <b>11.</b> hand safety         | <b>a.</b>    |
| ___ <b>12.</b> sharp object        | <b>b.</b>    |
| ___ <b>13.</b> clothing protection | <b>c.</b>  |
| ___ <b>14.</b> chemical safety     | <b>d.</b>  |
| ___ <b>15.</b> eye protection      | <b>e.</b>  |
| ___ <b>16.</b> electrical safety   | <b>f.</b>  |
| ___ <b>17.</b> plant safety        | <b>g.</b>  |
| ___ <b>18.</b> heating safety      | <b>h.</b>  |
| ___ <b>19.</b> animal safety       | <b>i.</b>  |

**Review** (p. 27)

Now that you've finished Section 4, review what you learned by answering the Review questions in your ScienceLog.