

Section Review

Tools, Measurement, and Safety

USING KEY TERMS

Complete each of the following sentences by choosing the correct term from the word bank.

mass area
volume temperature

1. The measure of the surface of an object is called _____.
2. Life scientists use kilograms when measuring an object's _____.
3. The _____ of a liquid is usually described in liters.

UNDERSTANDING KEY IDEAS

4. SI units are
 - a. always based on standardized measurements of body parts.
 - b. almost always based on the number 10.
 - c. used only to measure length.
 - d. used only in France.
5. How is temperature related to energy?

6. If you were going to measure the mass of a fly, which SI unit would be most appropriate?

Section Review *continued*

MATH SKILLS

7. Convert 3.0 L into cubic centimeters. Show your work below.

8. Calculate the volume of a textbook that is 28.5 cm long, 22 cm wide, and 3.5 cm thick. Show your work below.

CRITICAL THINKING

9. **Making Inferences** The mite shown in your textbook is about 500 μm long in real life. What tool was probably used to produce this image? How can you tell?

10. **Applying Concepts** Give an example of what could happen if you do not follow safety rules.
