Name _____ *Class* _____ *Date* _____

Measuring Area and Volume

Complete the following.

1. What is area? _____

2. What is the formula for calculating area? _____

3. Name two metric units that are used to express area. _____

4. What is volume? _____

5. What is the formula for calculating volume? _____

6. What instrument is usually used to measure the volume of a liquid? _____

7. What unit is liquid volume usually measured in? _____

8. What unit of volume is the same as 1 mL? _____

Skill Challenge

Skills: *identifying, analyzing*

1. Find the area of the following using a metric ruler or meter stick. Express your answer in square units.

    a. your desktop _____ **b.** your classroom _____

    c. a piece of paper _____ **d.** the chalkboard _____

    e. the cover of your science notebook _____ **f.** a chalkboard eraser _____

2. Choose four objects found in your home or classroom. Measure the length, width, and height of each object using a metric ruler or meter stick. Then, find the volume of each object. Round your answers to the nearest centimeter.

Object	Length	Width	Height	Volume

Scientific Skills and Investigations Handbooks

Answer Key

Measuring Area and Volume

1. the number of square units in a region OR the length times the width of any rectangle   **2.** length times width   **3.** Accept any two of the following: square centimeters, square meters, square millimeters, square decimeters, square kilometers, square decameters, or square hectometers.
4. amount of space an object takes up   **5.** length times width times height   **6.** graduated cylinder
7. liters   **8.** $1\ cm^2$

Skill Challenge

1. Answers will vary.   **2.** Answers will vary.