

SECTION**1****Enrichment****Solving a Measurement Problem**

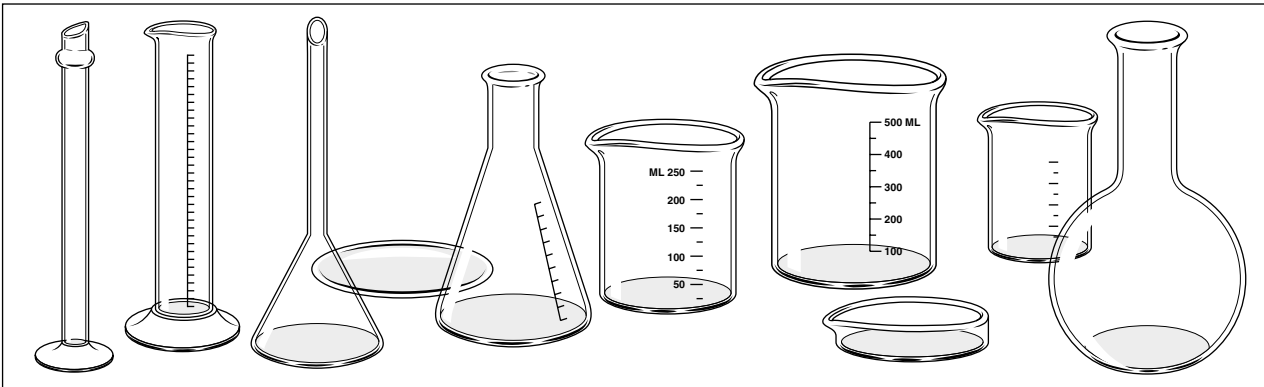
One type of problem solving that we often encounter is determining the size of something. When this type of problem occurs, we do not always have the appropriate measuring tools available. For example, you may be out shopping and need to know if a large box will fit in the trunk of your parents' car. If you can find the dimensions of the box and the trunk, you can determine if the box will fit before you spend time and energy lifting the box up to the trunk.

In this activity you will use paper clips as your measuring device. You will find the height and width of your textbook with a large paper clip. Then you will use this information and other data to find the height and length of your textbook using a small paper clip.

Procedure

1. Measure the height and width of the figure below using a large paper clip. Record these values in the table.
2. Measure the height and width of the figure using the small paper clip. Record these values in the table.
3. Measure the height and width of your textbook using the large paper clip. Record these values in the table.
4. Predict the height and width of your textbook in small paper clips. Record your prediction in the table for comparison with the actual measurements.

	Large paper clip	Prediction	Small paper clip
Figure height			
Figure width			
Textbook height			
Textbook width			

**Analyze and Conclude**

1. How can you find the height and width of your textbook in small paper clips, without measuring it with a small paper clip?

2. Measure your textbook with a small paper clip and record your measurements in the table. Compare your prediction with the actual measurements.
