



# Anchoring Units of Measurement

Let's see how big different things are.

## 1.1 Estimating Volume

Estimate the volume of the tiny salt shaker.



## 1.2 What Do They Measure?

Write each unit in the appropriate column based on whether it measures length, volume, or weight or mass.

|            |        |           |            |            |       |
|------------|--------|-----------|------------|------------|-------|
| centimeter | gallon | kilogram  | meter      | millimeter | quart |
| cup        | gram   | kilometer | mile       | ounce      | ton   |
| foot       | inch   | liter     | milliliter | pound      | yard  |

| length | volume | weight or mass |
|--------|--------|----------------|
|        |        |                |

### 1.3

## Cutting String

Your teacher will assign you one of the following lengths:

1 centimeter, 1 foot, 1 inch, 1 meter, or 1 yard.

Estimate and cut a piece of string as close to your assigned length as you can without using a measurement tool.

### 1.4

## Card Sort: Measurement Benchmarks

Your teacher will give you a set of cards, each with a picture of an object and a letter in the top right corner. Use the graphic organizers to sort the cards with the same letter.

1. Match each picture card that has the letter “L” to a unit of length that is closest to the length of the object.
2. Match each picture card that has the letter “V” to a unit of volume that is closest to the volume of the object.
3. Match each picture card that has the letter “WM” to a unit of weight or mass that is closest to the weight or mass of the object.



## Lesson 1 Summary

We can use everyday objects to estimate standard units of measurement. Here are some examples.

| unit of length | is about . . .   |
|----------------|--|
| 1 millimeter   | the thickness of a dime                                    |
| 1 centimeter   | the width of a pinky finger                                |
| 1 inch         | the length from the tip of your thumb to the first knuckle |
| 1 foot         | the length of a football                                   |
| 1 yard         | the length of a baseball bat                               |
| 1 meter        | the length of a baseball bat and ball                      |
| 1 kilometer    | the distance someone walks in 10 minutes                   |
| 1 mile         | the distance someone runs in 10 minutes                    |

| unit of volume | is about . . .                               |
|----------------|--|
| 1 milliliter   | the volume of a eyedropper                   |
| 1 cup          | the volume of a school milk carton           |
| 1 quart        | the volume of a large bottle of sports drink |
| 1 liter        | the volume of a reusable water bottle        |
| 1 gallon       | the volume of a large milk jug               |

| unit of weight or mass | is about . . .                 |
|------------------------|--------------------------------|
| 1 gram                 | the mass of a raisin           |
| 1 ounce                | the weight of a slice of bread |
| 1 pound                | the weight of a loaf of bread  |
| 1 kilogram             | the mass of a textbook         |
| 1 ton                  | the weight of a small car      |