



Name: \_\_\_\_\_ #: \_\_\_\_\_

Date: \_\_\_\_\_

Section: \_\_\_\_\_ HR: \_\_\_\_\_

## Measurement - A Common Language: Length

Lab  
zone

### Discover Activity

#### How Many Shoes?

1. Trace an outline of your shoe onto a piece of paper. Cut out your pattern.
2. Use your pattern to measure the length of your classroom in "shoes."
3. Compare your measurement to those of three classmates. Did you all measure the same number of "shoes"?

#### Think It Over

**Inferring** Why do you think it is important that people use standard units of measurement?



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## A Standard Measurement System

### The Metric System

When and why was the metric system invented?

Who invented the metric system?

metric system:

- \_\_\_\_\_
- \_\_\_\_\_

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## The International System of Units (SI)

Scientists all over the world use the International System of Units to measure...

### Figure 1: Calculating

How much larger is a kilo- than a deka-?

### ✓ Reading Checkpoint (page 45)

SI units are based on multiples of what number?

### Key Concept

Why do scientists use a standard measurement system?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
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## Length

What is length?

### Units of Length

The basic unit of length in the SI system

The two units that measure the length of smaller objects

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

<u>Prefix</u>	<u>Meaning</u>	<u>Unit of Length</u>
milli		
	one-hundredth	
		meter
	one thousand	

### Measuring Length

The longer lines on the metric ruler are called

The shorter lines on the metric ruler are called

#### ✓ Reading Checkpoint (page 48)

One centimeter is divided into how many millimeters?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### Figure 2: Calculating

Measure the turtle in figure 2 from the rear of its shell to the tip of its nose. Record its length in both centimeters and millimeters.

centimeters: \_\_\_\_\_ millimeters: \_\_\_\_\_