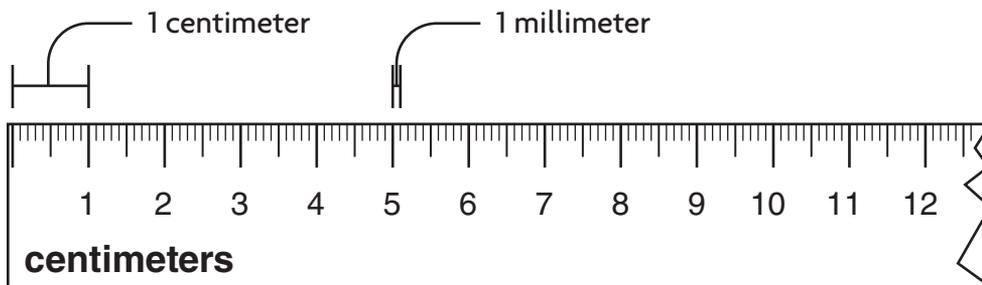


## Metric Units of Length

Meters (m), **decimeters** (dm), centimeters (cm), and **millimeters** (mm) are all metric units of length. You can use a ruler and a meterstick to find out how these units are related.

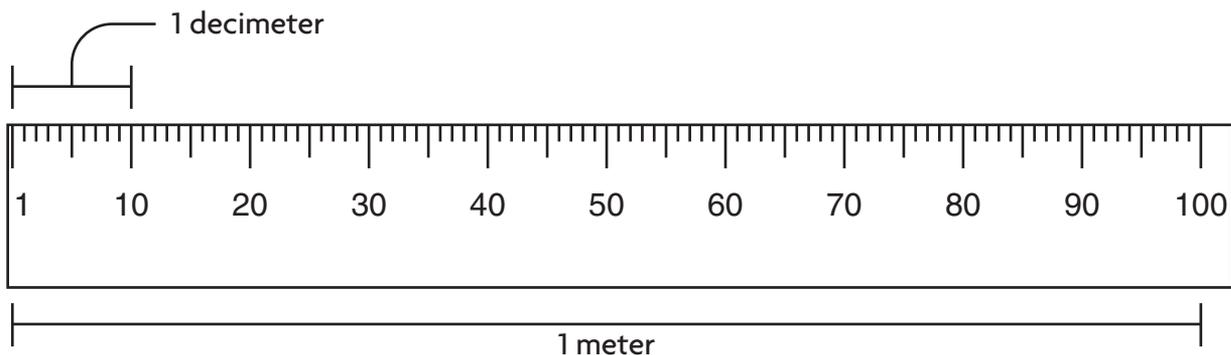
**Materials:** ruler, meterstick

**Step 1** Look at a metric ruler. Most look like the one below.



The short marks between each centimeter mark show millimeters. 1 centimeter has the same length as a group of 10 millimeters.

**Step 2** Look at a meterstick. Most look like the one below.



1 decimeter has the same length as a group of 10 centimeters.

**Step 3** Use the ruler and the meterstick to compare metric units of length.

1 centimeter = 10 millimeters

1 decimeter = 10 centimeters

1 meter = 10 decimeters

1 meter = 100 centimeters

**Complete.**

**1** 3 meters = \_\_\_\_\_ decimeters

**2** 5 meters = \_\_\_\_\_ centimeters

**3** 4 centimeters = \_\_\_\_\_ millimeters

**4** 9 decimeters = \_\_\_\_\_ centimeters