

**STUDY LINK**  
**4•10**

# Decimals and Metric Units



## Symbols for Metric Units of Length

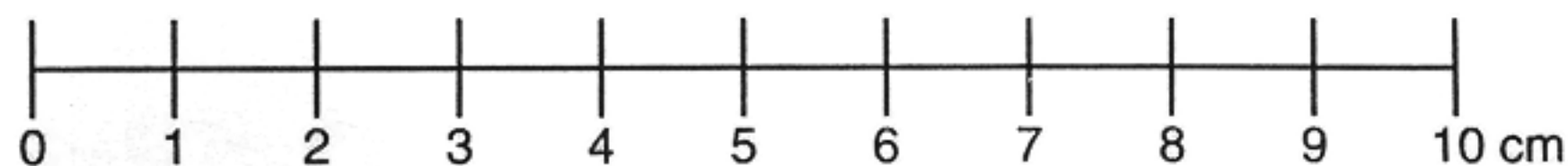
meter (m)  
 centimeter (cm)  
 decimeter (dm)  
 millimeter (mm)

### 1 decimeter



$$1 \text{ m} = 10 \text{ dm} \quad 1 \text{ dm} = 0.1 \text{ m}$$

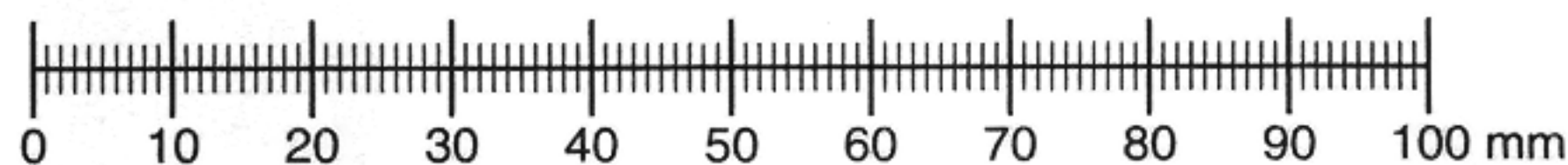
### 10 centimeters



$$1 \text{ m} = 100 \text{ cm} \quad 1 \text{ cm} = 0.01 \text{ m}$$

$$1 \text{ dm} = 10 \text{ cm} \quad 1 \text{ cm} = 0.1 \text{ dm}$$

### 100 millimeters



$$1 \text{ m} = 1,000 \text{ mm} \quad 1 \text{ mm} = 0.001 \text{ m}$$

$$1 \text{ dm} = 100 \text{ mm} \quad 1 \text{ mm} = 0.01 \text{ dm}$$

$$1 \text{ cm} = 10 \text{ mm} \quad 1 \text{ mm} = 0.1 \text{ cm}$$

Use your tape measure or ruler to help you fill in the answers below.

- |                             |                          |                          |
|-----------------------------|--------------------------|--------------------------|
| 1. a. 4.2 cm = <u>42</u> mm | b. 64 mm = <u>6.4</u> cm | c. 2.6 m = <u>260</u> cm |
| 2. a. 6.5 cm = _____ mm     | b. 26 mm = _____ cm      | c. 6.1 m = _____ cm      |
| 3. a. 5 cm = _____ mm       | b. 30 mm = _____ cm      | c. 3 m = _____ cm        |
| 4. a. 80 cm = _____ mm      | b. 110 mm = _____ cm     | c. _____ m = 500 cm      |
| 5. a. 43 cm = _____ mm      | b. 98 mm = _____ cm      | c. _____ m = 34 cm       |
| 6. a. 0.6 cm = _____ mm     | b. 4 mm = _____ cm       | c. 5.2 m = _____ mm      |

## Practice

7. 21, 49, and 56 are multiples of \_\_\_\_\_.
8. 45, 63, and 18 are multiples of \_\_\_\_\_.