

STUDY LINK
4•10

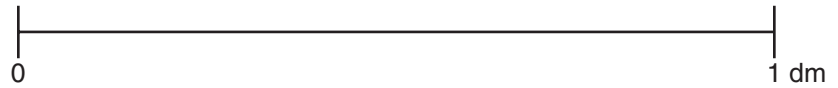
Decimals and Metric Units



Symbols for Metric Units of Length

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

1 decimeter



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

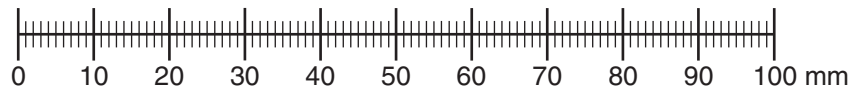
10 centimeters



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

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

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. $4.2 \text{ cm} = \underline{42} \text{ mm}$ b. $64 \text{ mm} = \underline{6.4} \text{ cm}$ c. $2.6 \text{ m} = \underline{260} \text{ cm}$
2. a. $6.5 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$ b. $26 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$ c. $6.1 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$
3. a. $5 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$ b. $30 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$ c. $3 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$
4. a. $80 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$ b. $110 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$ c. $\underline{\hspace{2cm}} \text{ m} = 500 \text{ cm}$
5. a. $43 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$ b. $98 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$ c. $\underline{\hspace{2cm}} \text{ m} = 34 \text{ cm}$
6. a. $0.6 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$ b. $4 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$ c. $5.2 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$

Practice

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