

# Solve Multi-step Metric Measurement Problems

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Interactive Examples

Convert.

1.  $16 \text{ m} = \underline{16,000} \text{ mm}$

number of meters      millimeters in 1 meter

$\downarrow$                                    $\downarrow$

$16 \times 1,000 = 16,000$

$16 \text{ m} = 16,000 \text{ mm}$

2.  $6,500 \text{ cL} = \underline{\hspace{2cm}} \text{ L}$

number of millimeters

$\downarrow$

3.  $15 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

4.  $3,200 \text{ L} = \underline{\hspace{2cm}} \text{ kL}$

5.  $12 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

6.  $200 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

7.  $70,000 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

8.  $100 \text{ dL} = \underline{\hspace{2cm}} \text{ L}$

9.  $60 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$

Compare. Write  $<$ ,  $>$ , or  $=$ .

10.  $900 \text{ cm} \bigcirc 9,000 \text{ mm}$

11.  $600 \text{ km} \bigcirc 5 \text{ m}$

12.  $5,000 \text{ cm} \bigcirc 5 \text{ m}$

13.  $18,000 \text{ L} \bigcirc 10 \text{ kL}$


14.  $8,456 \text{ mL} \bigcirc 9 \text{ L}$

15.  $2 \text{ m} \bigcirc 275 \text{ cm}$

## Problem Solving

16. Bria ordered 145 centimeters of fabric. Jayleen ordered 1.5 meters of fabric. Who ordered more fabric?

17. Ed fills his sports bottle with 1.2 liters of water. After his bike ride, he drinks 200 milliliters of the water. How much water is left in Ed's sports bottle?

18.  **WRITE** *Math* Explain the relationship between multiplying and dividing by 10, 100, and 1,000 and moving the decimal point to the right or to the left.

## Lesson Check

19. Quan bought 8.6 meters of fabric. How many centimeters of fabric did he buy?
20. Kem takes 2 centiliters of medicine. How many milliliters is this?

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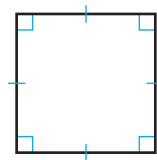
## Spiral Review

21. Yolanda needs 5 pounds of ground beef to make lasagna for a family reunion. One package of ground beef weighs  $2\frac{1}{2}$  pounds. Another package weighs  $2\frac{3}{5}$  pounds. How much ground beef will Yolanda have left over after making the lasagna?
22. A soup recipe calls for  $2\frac{3}{4}$  quarts of vegetable broth. An open can of broth contains  $\frac{1}{2}$  quart of broth. How much more broth do you need to make the soup?

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23. What is the volume of a rectangular prism with a length of 6 feet, width of 4 feet, and height of  $2\frac{1}{2}$  feet?
24. List all the possible names for the polygon.



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