

Lesson 3-10

Reinforce Understanding

Convert Measurement Units

I can convert measurement units using ratios and conversion factors.

Worked model

The cabinet is 5 feet tall. I want to know how many inches that is.

1. My conversion factor is 1 foot = 12 inches.
2. Inches are smaller than feet, so I multiply: $5 \times 12 = 60$.
3. So 5 feet = 60 inches.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Complete the conversion table using the given conversion factors.

Complete the table. Show how you found each value.

Given	Conversion Factor	Answer
2 feet	1 ft = 12 in	24 inches
6 yards	1 yd = 3 ft	
3 pounds	1 lb = 16 oz	

Show your work

2. How many inches are in 7 feet?

Circle the letter of the best answer. Show how you know.

- A. 70 inches
- B. 72 inches
- C. 84 inches
- D. 96 inches

Show your work

3. How many feet are in 3 yards?

Circle the letter of the best answer. Show how you know.

- A. 6 feet
- B. 9 feet
- C. 12 feet
- D. 36 feet

Show your work
