Name: _____

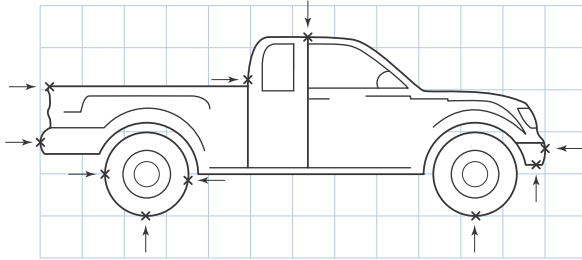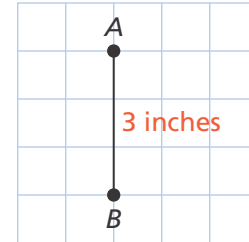# 8-1 Additional Practice

1. What is the actual length of the truck?

1 cm = 1.7 feet
The gridlines are spaced 1 cm apart.

2. A portion of a map with cities A and B is shown. The map uses a scale of 1 inch to 30 miles. A new map has a scale of 2 inches = 15 miles. How far apart are cities A and B on the new map?

A

3 inches

B

3. A 12-foot wall measures 2.5 inches on a scale drawing. In the drawing, a second wall is 9 inches long. What is the actual length of the second wall?

4. In a scale drawing, the length of a rectangular room is 6 inches, and the width is 3 inches. The actual length of the room is 18 feet.

a. What is the scale of the drawing?

b. In a new scale drawing of the same room, the length of the room measures 4 inches. What is the scale of the new drawing? Explain.
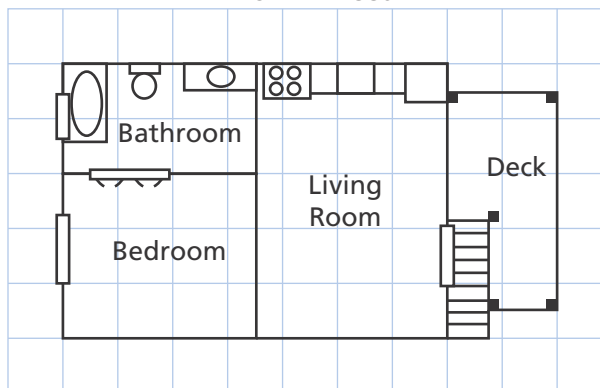
5. On a scale drawing of a fence, 3.75 inches represent 24 feet.

What is the actual length of a fence that is 2.8 inches long in the drawing?
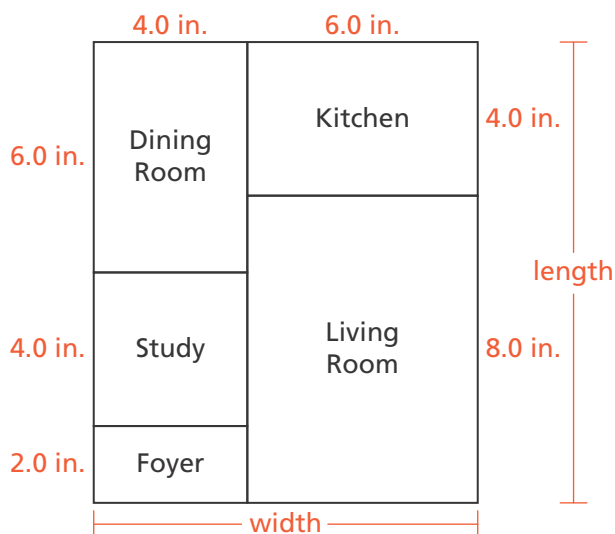
6. Higher Order Thinking If carpet costs $1.50 per square foot including the cost of installation, how much will it cost to carpet the entire living room floor of the cabin shown at the right?

The gridlines are spaced 1 cm apart.
1 cm = 4 feet

Bathroom

Deck

Living Room

Bedroom

7. On the floor plan shown at the right, 1.25 inches represents 2 feet.

a. What is the actual length of the entire floor?

b. What is the actual area of the entire floor? Explain how you found the area.

4.0 in.   6.0 in.

6.0 in.

Dining Room

Kitchen

4.0 in.

4.0 in.   Study

Living Room

length

8.0 in.

2.0 in.   Foyer

width

© Assessment Practice

8. An architect is recreating the blueprint for a deck with an existing scale factor of 1 in. = 2 ft, shown at the right. The architect is using a different scale so that the length of the deck on the new blueprint measures 8 inches.

PART A

What is the scale factor of the new blueprint?

width
8 in.

length
12 in.

PART B

What is the width of the deck on the new blueprint?

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