## Name

## Maps and Scale Drawings

On the drawing, the scale tells us that 1 cm = 2 ft.

For every 1 cm on the drawing, there are 2 ft in the kitchen.

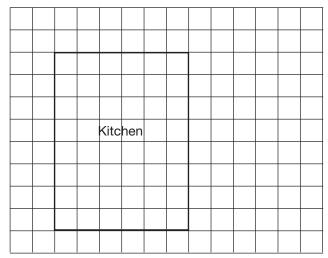
What is the real length of the room?

Step 1: Set up a proportion.

Write the scale as the first ratio. Use the information about the kitchen for the second ratio.



Step 2: Use cross multiplication to solve the proportion.  $\frac{1 \text{ cm}}{2 \text{ ft}} = \frac{8 \text{ cm}}{x}$  $1x = 2 \times 8$ x = 16



Scale: 1 cm = 2ft

The real room is 16 feet long.

Use the scale drawing to answer 1 through 3.

- 1. What is the actual length of the living room?
- 2. What are the dimensions of the dining room?
- **3.** What are the dimensions of the kitchen?

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	Di	ning	; Ro	om		k	litch	ien		

Scale: 1 cm = 2.5 ft

**4. Reasoning** A room measures 12 ft by 15 ft. Find the scale that would allow the room to be shown as large as possible on a piece of paper 7 in. by 8 in. Explain your reasoning.

Reteaching **13-6**