

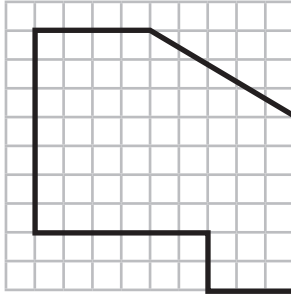
Lesson 5.13 Problem Solving**SHOW YOUR WORK**

Solve each problem.

1. On a map, each centimeter represents 45 kilometers. Two towns are 135 kilometers apart. What is the distance between the towns on the map?

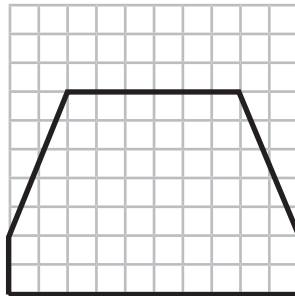
The towns are _____ centimeters apart on the map.

2. This hotel lobby is being carpeted. Each unit length represents 1 yard. Carpet costs \$22.50 per square yard. How much will it cost to carpet the room?



It will cost _____ to carpet the hotel lobby.

3. Hal is going to put tiles down for his patio. Each unit represents 1 square foot. If he wants this shape and tiles cost \$3.15 per square foot, how much will Hal end up spending for his patio?



Hal will spend _____ to tile his patio.

4. A scale drawing shows a room as 10 cm by 7 cm. The scale of the drawing is 2 cm = 5 m. What is the actual area of the room?

The room is _____ square meters.

5. A circular rug is 8 feet in diameter. What is its area?

The rug's area is _____ square feet.