4-2
B

Problem-Solving Practice

Scale Drawings

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1. **CARS** A scale drawing of an automobile has a scale of 1 inch $= \frac{1}{2}$ foot. The actual width of the car is 8 feet. What is the width on the scale drawing?

2. **MODELS** A model ship is built to a scale of 1 centimeter : 5 meters. The length of the model is 30 centimeters. What is the actual length of the ship?

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3. **BUILDING** Curtis wants to build a model of a 180-meter tall building. He will be using a scale of 1.5 centimeters $= 3.5$ meters. How tall will the model be? Round your answer to the nearest tenth.

4. **TRAVEL** Merritt is driving to Mount Shasta. On her map, she is a distance of $7\frac{3}{4}$ inches away. The scale of the map is $\frac{1}{2}$ inch $= 50$ miles. How far must Merritt travel to reach her destination?

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5. **MAPS** A map of Levi's property is being made with a scale of 2 centimeters: 3 meters. What is the scale factor?

6. **LANDSCAPING** A pond is being dug according to plans that have a scale of 1 inch $= 6.5$ feet. The maximum distance across the pond is 9.75 inches on the plans. What will be the actual maximum distance across the pond?