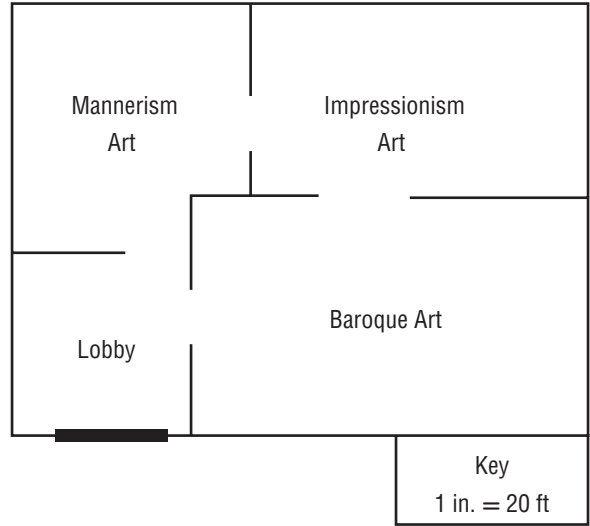


# Homework Practice

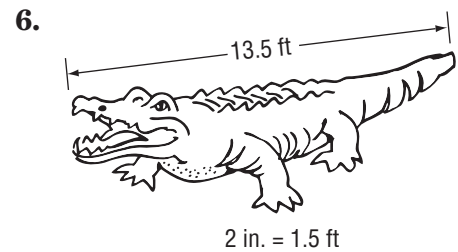
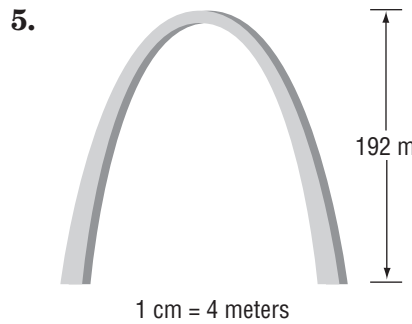
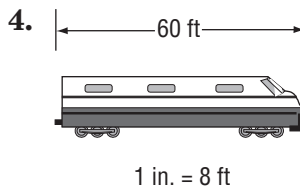
## Scale Drawings

For Exercises 1–3, use the diagram of a section of the art museum shown. Use a ruler to measure.

1. What is the actual length of the *Impressionism Art* room?
2. Find the actual dimensions of the *Baroque Art* room.
3. Find the scale factor for this blueprint.



Find the length of each model. Then find the scale factor.



7. **SKYSCRAPER** A model of a skyscraper is made using a scale of 1 inch:75 feet. What is the height of the actual building if the height of the model is  $19\frac{2}{5}$  inches?
8. **GEOGRAPHY** Salem and Eugene, Oregon, are 64 miles apart. If the distance on the map is  $3\frac{1}{4}$  inches, find the scale of the map.
9. **PYRAMIDS** The length of a side of the Great Pyramid of Khufu at Giza, Egypt, is 751 feet. If you were to make a model of the pyramid to display on your desk, which would be an appropriate scale: 1 in. = 10 ft or 1 ft = 500 ft? Explain your reasoning.

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**Problem-Solving Practice****Scale Drawings**

<p><b>1. CARS</b> A scale drawing of an automobile has a scale of 1 inch = <math>\frac{1}{2}</math> foot. The actual width of the car is 8 feet. What is the width on the scale drawing?</p>	<p><b>2. MODELS</b> 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?</p>
<p><b>3. BUILDING</b> 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.</p>	<p><b>4. TRAVEL</b> Merritt is driving to Mount Shasta. On her map, she is a distance of <math>7\frac{3}{4}</math> inches away. The scale of the map is <math>\frac{1}{2}</math> inch = 50 miles. How far must Merritt travel to reach her destination?</p>
<p><b>5. MAPS</b> A map of Levi's property is being made with a scale of 2 centimeters: 3 meters. What is the scale factor?</p>	<p><b>6. LANDSCAPING</b> 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?</p>