

7.7 Scale Drawings and Models

For problems #1 – 2, use the following scale... 2 in : 35 miles

1. The distance between Troy City and Ben City is 315 miles. How far apart are they on the map?
2. Marking City is 5 inches away from Jamming City on the map. What is the actual distance between the two cities?
3. A blueprint of a house has a scale of 1 in : 6 ft. The living room has dimensions of 18 ft by 24 feet. What are the dimensions on the blueprint of the living room? (HINT: Use two different proportions!)
4. A model of a car has a scale of 3 cm : 2 m. The length of the actual hood of the car is 1 m. What is the length of the hood of the model?
5. A 120-ft long playground is just 15 in. on the scale drawing. What is the scale on the scale drawing?
6. The scale on a map is $\frac{1}{4}$ in : 18 mi. The state capital is 252 miles from the border. How far is the state capital from the border on the map?
7. A replica of a statue is 10 inches tall. The actual statue is 10 feet tall. What is the scale factor of the replica?
8. If the rectangle below is enlarged using a scale factor of 1.5, what will be the perimeter and area of the new rectangle?

