

LESSON

5-8

Practice A

Scale Drawings and Scale Models

1. A drawing is 10 in. and the actual measurement is 20 ft. What is the scale?

2. A model of a planned baseball stadium is 2 ft wide. The actual stadium will be 200 yd wide. What is the scale?

The scale used on a map is $\frac{1}{4}$ in. = 6 mi. Find the actual distance for each measurement.

3. 4 in. _____
4. 3 in. _____
5. 1 in. _____
6. 2.75 in. _____

7. On a map, the distance between two towns is 2.6 cm. The scale of the map is 1 cm:50 km. What is the actual distance between the two towns?

8. A square has a perimeter of 60 ft. A scale drawing of the figure is made with a scale of $\frac{1}{3}$ in. = 5 ft. What is the perimeter of the scale drawing of the figure?

9. A scale drawing has a scale of 1 in. = 10 ft. How long is a line on the drawing that represents an actual length of 22.5 ft?

10. On a map the distance between Charleston and Mt. Pleasant is 3.2 cm. The scale is 1 cm = 25 mi. What is the actual distance between these two towns?

11. A scale model of a house is 1 ft long. The actual house is 36 ft long. In the model, the door is 2 in. high. How many feet high is the actual door?

12. A scale model of a car is drawn with a scale of 1:12. If the scale model is 185 mm long, how long is the actual car?

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Practice B

Scale Drawings and Scale Models

The scale used on a map is $\frac{1}{4}$ in. = 15 mi. Find the actual distance of each measurement.

1. 9 in. 2. 12 in. 3. 14 in. 4. 15 in.

Tell whether each scale reduces, enlarges, or preserves the size of an actual object.

5. 1 m : 25 cm 6. 8 in. : 1 ft 7. 12 in. : 1 ft

8. On a map of the United States, the distance between Washington, DC and Spokane, Washington, is 16.5 inches. The scale of the map is 1 inch: 150 miles. What is the actual distance between the cities?

9. On a map the distance between Atlanta, Georgia, and Nashville, Tennessee, is 12.5 in. The actual distance between these two cities is 250 miles. What is the scale?

10. Blueprints of a house are drawn to the scale of $\frac{1}{4}$ in. = 1 ft. A kitchen measures 3.5 in. by 5 in. on the blueprints. What is the actual size of the kitchen?

11. A scale model of a house is 1 ft long. The actual house is 50 ft long. In the model, the window is $1\frac{1}{5}$ in. high. How many feet high is the actual window?

12. A model of a skyscraper is 1.6 in. long, 2.8 in. wide, and 11.2 in. high. The scale factor is 8 in. : 250 ft. What are the actual dimensions of the skyscraper?