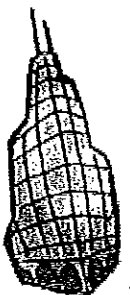


using and applying scale factor

Name: _____

Date: _____

1. Julia's room is 4 in. long on a scale drawing. If her room is actually 16 ft. long, what is the scale?
2. A drawing of a 78-foot long building was built using a scale of 1 in: 8 ft. What is the length of the scaled drawing?
3. On a map the distance between Atlanta, Georgia and Nashville, Tennessee, is 12.5 in. The scale is 1 in. = 20 mi. What is the actual distance between these two cities?
4. 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?



The scale factor of a drawing is $\frac{1}{4}$ in. = 15 ft. Find each actual measurement.



5. 9 in.

6. 12 in.

7. 20 in.

8. 10.8 in.

The scale factor is 2cm = 25 m. Find the length each measurement would be on a scale drawing.

9. 150 m

10. 475 m

11. 350 m

12. 262.5 m