

LESSON
7-7 **Homework and Practice**
Scale Drawings

The scale of a drawing is $\frac{1}{4}$ in. = 12 ft. Find the actual measurement.

1. 8 in.

2. 11 in.

3. 16 in.

4. 18 in.

5. 22 in.

6. 27 in.

7. 21.5 in.

8. 38.5 in.

The scale is 2 cm = 15 m. Find the length each measurement would be on a scale drawing.

9. 180 m

10. 585 m

11. 330 m

12. 420 m

13. 225 m

14. 622.5 m

15. 547.5 m

16. 682.5 m

17. 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 in miles between these two towns?

18. Blueprints of a building are drawn with a scale of 1 cm = 25 ft. If the base of the building is a square with a perimeter 700 feet, what is the length of one side of the base of the building on the scale drawing?

19. If the scale drawing of a room has measurements of 8 cm by 4.5 cm and the scale of the drawing is 1 cm = 8 ft, what are the actual measurements of the room?

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7-7 **Homework and Practice**
Scale Drawings

The scale of a drawing is $\frac{1}{4}$ in. = 12 ft. Find the actual measurement.

1. 8 in.

384 ft

2. 11 in.

528 ft

3. 16 in.

768 ft

4. 18 in.

864 ft

5. 22 in.

1,056 ft

6. 27 in.

1,296 ft

7. 21.5 in.

1,032 ft

8. 38.5 in.

1,848 ft

The scale is 2 cm = 15 m. Find the length each measurement would be on a scale drawing.

9. 180 m

24 cm

10. 585 m

78 cm

11. 330 m

44 cm

12. 420 m

56 cm

13. 225 m

30 cm

14. 622.5 m

83 cm

15. 547.5 m

73 cm

16. 682.5 m

91 cm

17. 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 in miles between these two towns?

80 mi

18. Blueprints of a building are drawn with a scale of 1 cm = 25 ft. If the base of the building is a square with a perimeter 700 feet, what is the length of one side of the base of the building on the scale drawing?

7 cm

19. If the scale drawing of a room has measurements of 8 cm by 4.5 cm and the scale of the drawing is 1 cm = 8 ft, what are the actual measurements of the room?

64 ft × 36 ft