

Section 1.7

Exercises

Convert the following measurements to the indicated units.

1. 10.25 in = _____ cm

2. 39 m = _____ ft

3. 50 mile = _____ km

4. 100 km = _____ mile

5. 12 yard = _____ m

6. 350 cm = _____ in

7. 67 in = _____ m

8. 75 hm = _____ mile

9. 2.45 m = _____ in

10. 0.025 ft = _____ mm

11. 0.75 tsp = _____ ml

12. 7 cups = _____ l

13. 2 l = _____ quarts

14. 32.7 l = _____ gallon

15. 6.5 ounce = _____ ml

16. 18.4 gallon = _____ l

17. 1040 gallon = _____ kl

18. 0.25 cup = _____ ml

19. 37.75 dl = _____ cup

20. 7.4 cl = _____ tbsp

21. 12 oz = _____ g

22. 150 lb = _____ kg

23. 0.25 g = _____ oz

24. 450 g = _____ lb

25. 75.3 kg = _____ lb

26. 0.035 kg = _____ lb

27. 12.75 lb = _____ g

28. 2 ton = _____ kg

29. 1.45 oz = _____ mg

30. 0.23 lb = _____ dg

31. 3.45 ft^3 = _____ m^3

32. 83.5 ft^3 = _____ m^3

33. 0.44 m^3 = _____ ft^3

34. 35.9 m^3 = _____ ft^3

35. 10.5 cubic yard = _____ m^3

36. 65 cubic yard = _____ m^3

37. 50.9 dm^3 = _____ m^3

38. 175 m^3 = _____ hm^3

39. 25.6 km^2 = _____ ft^2

40. 0.25 km^2 = _____ square mile

41. 96 in^2 = _____ cm^2

42. 5500 cm^2 = _____ in^2

43. A rectangular box is 32 inches wide by 40 inches long by 2.5 feet high. Find the volume of the box in cubic feet.

44. A fish tank is 2 feet wide by 5 feet long by 1.5 feet high.

(a) Find the volume of the fish tank in cubic feet.

(b) Find the volume of the fish tank in cubic meters.

(c) Find the volume of the fish tank in kiloliters.

45. A piece of paper is 8.5 inches wide by 11 inches long.

(a) Find the area of a piece of paper in square inches.

(b) Find the area of a piece of paper in square centimeters.

46. A circular tabletop has a radius of 7.5 dm. Find the area of the tabletop in square meters.

47. A wall is 15 feet long by 8 feet high. Find the area of the wall in square meters.

48. A cylinder has height 35 cm and radius 0.25 m.

(a) Find the volume of the cylinder in cubic centimeters.

(b) Find the volume of the cylinder in cubic meters.

(c) Find the volume of the cylinder in cubic feet.

49. Convert 65 miles per hour into kilometers per hour.

50. A bicycle is traveling at 5.2 feet per second. How fast is the bicycle traveling in meters per second.

51. A certain cereal costs \$0.05 per gram. How much is the price per ounce?

52. A store advertises carpet for \$3.99 per square yard.

(a) What is the price of the carpet per square foot?

(b) What is the price of the carpet per square meter?