

## Chapter 7 Review Exercise Answers

1. True
2. True
3. True
4. False
5. True
6. False
7. False
8. True
9. 216 in.
10. 119 in.
11. 4 ft 2 in.
12. 10 ft 10 in.
13. A tennis racquet is 27 inches long.
14. At 7 feet 2 inches tall, Margo Dydek is the tallest woman professional basketball player in the WNBA.
15. 12 ft
16. 1 ft 6 in.
17. The house is 13 feet 2 inches tall.
18. The rest of its body is 8 feet 9 inches long.
19. 47 feet
20. 17 yards
21. 10 pints
22.  $\frac{3}{4}$  pound
23. 5 pints
24.  $1\frac{3}{4}$  cups
25. 48 fluid ounces
26. 3 gallons
27. 18 fluid ounces
28.  $\frac{4}{5}$  pound
29. 6 ounces
30. 2,900 pounds
31. 240 oz
32. 82 oz
33. 2 lb 8 oz
34. 8 lb 14 oz
35. The roasting chicken weighs 61 ounces.
36. The double box of cereal weighs 4 pounds 12 ounces.
37. 12 pounds
38. 1 pound 12 ounces
39. The total weight of these two books is 11 pounds 4 ounces.
40. The remaining block of cheese weighs 13 pounds 7 ounces.
41. 30.8 g
42. 6,800 g
43. 8.7 m
44. 0.24 L
45. 20 mm
46. 9 cg
47. 3.12 dL
48. 0.12 kL

49. 0.36 km                      50. 82 dam
51. Jakhil ran 400 meters in one minute.
52. A hummingbird weighs 1,600 milligrams.
53. 2011 centigrams    54. 48.05 deciliters
55. Martin drank 3.1 liters for his test.
56. Foofi gained 480 grams during the year.
57.  $3\frac{1}{2}$  quarts                      58. 36 ounces                      59.  $4\frac{1}{2}$  feet                      60. 27,000 grams
61. 9,500 meters                      62. 12 liters                      63. 55 centimeters                      64. 24 inches
65. 10 quarts                      66. 28.5 liters                      67.  $1\frac{1}{4}$  ounces                      68. 15 meters
69. The sack of potatoes weighs about 9.1 kilograms.
70. (a) Jorge is 72 inches tall. (b) Jorge is about 180 centimeters tall.
71.  $\angle BRK = 48.4^\circ$     72.  $\angle EMD = 97.5^\circ$     73.  $\angle BLN = 54.8^\circ$     74.  $\angle RFX = 27.5^\circ$
75.  $\angle 1 = 32^\circ$ ,  $\angle 2 = \angle 4 = 148^\circ$                       76.  $\angle C = 52^\circ$
77. Isosceles                      78. Equilateral                      79.  $\angle G = 30.6^\circ$                       80.  $\angle J = 66.2^\circ$
81.  $\angle P = 40^\circ$ ,  $\angle Q = \angle O = 140^\circ$ ;  $\overline{OP} = 5$  cm;  $\overline{QP} = 9$  cm
82.  $d = 18$  ft                      83.  $r = 3\frac{2}{3}$  in.                      84.  $r = 1.15$  m
85. The perimeter of Leon's pool is  $29\frac{5}{6}$  yards.
86. The perimeter of the support structure is 28.1 meters.
87.  $x = 20$  ft,  $y = 8$  ft, The perimeter is 86 feet.
88. The perimeter of the dance floor is 87 feet.
89.  $P = 7$  ft.    90.  $P = 30$  yd.
91. Each side = 14 cm    92. Each side = 35 in.

- 93.** Marcus needs about 132 feet of fencing to fit around the garden.
- 94.** About 94.2 inches of weather-stripping is needed to go around the window.
- 95.**  $A = 20 \text{ yd}^2$       **96.**  $A = 3 \text{ m}^2$       **97.**  $A = \frac{9}{64} \text{ in.}^2$       **98.**  $A = 12\frac{1}{4} \text{ ft}^2$
- 99.**  $A = 200 \text{ in.}^2$       **100.**  $A = 10 \text{ ft}^2$       **101.**  $A = 5 \text{ in.}^2$       **102.**  $A = 33 \text{ cm}^2$
- 103.**  $A \approx 12.6 \text{ ft}^2$       **104.**  $d = 8.0 \text{ cm}^2$
- 105.** The area of the surface of the pond is 2,826 feet.
- 106.** The area of Erica's living room is  $144 \text{ ft}^2$ .      **107.**  $A \approx 7.74 \text{ cm}^2$       **108.**  $V = 540 \text{ in.}^3$
- 109.**  $V \approx 33.5 \text{ ft}^3$       **110.**  $V \approx 314 \text{ in.}^3$       **111.**  $V \approx 7.1 \text{ ft}^3$       **112.**  $V = 160 \text{ m}^3$
- 113.** The volume of the pyramid is 2,000 cubic yards.
- 114.** The volume of the storage area is 672 cubic feet.