Name _____ Class _____ Date _____

Chapter 9 Answers

Practice 9-1

1. meter **2.** centimeter **3.** millimeter **4.** meter
5. 30 mm; 3 cm **6.** 24 mm; 2.4 cm **7.** 42 mm; 4.2 cm
8. milligram **9.** kilogram **10.** milligram **11.** kilogram
12. milligram **13.** gram **14.** liter **15.** milliliter
16. milliliter **17.** liter **18.** kiloliter **19.** liter
20. true **21.** false **22.** true **23.** false
24. false **25.** true **26.** false **27.** false

Practice 9-2

1. 0.8 m **2.** 0.5 m **3.** 2,600 m **4.** 7,000 m
5. 0.25 m **6.** 35,000 m **7.** 0.04 m **8.** 3 m
9. 1,800 m **10.** 4.5 m **11.** 0.16 L **12.** 360 L
13. 2 L **14.** 0.2409 L **15.** 0.3685 L **16.** 8,000 L
17. 0.08 L **18.** 0.0173 L **19.** 90 L **20.** 0.33 L
21. 4 g **22.** 7,000 g **23.** 56 g **24.** 190 g
25. 0.7548 g **26.** 0.6 g **27.** 90,000 g **28.** 2.8 g
29. 400 g **30.** 0.0581 g **31.** 3.4 **32.** 42
33. 3.7 **34.** 510 **35.** 7.78 **36.** 9,500
37. 2,564 **38.** 4,000 **39.** 94.8 **40.** 6.48
41. 6 **42.** 167.8

Practice 9-3

1. about 21 $in.^2$ **2.** about 22 $in.^2$ **3.** about 12 $in.^2$
4. 46 cm, 120 cm^2 **5.** 64 in., 240 $in.^2$ **6.** 24 cm, 36 cm^2
7. 65 $in.^2$ **8.** 216 m^2 **9.** 24 ft^2 **10.** 12.25 yd^2
11. 81 cm^2 **12.** 36 m^2 **13.** 90.25 $in.^2$ **14a.** 48 cm^2
14b. 28 cm **15.** 28 in. **16.** 81 cm^2 **17.** 11.5 cm
18. 34 units long, 21 units wide, 714 square units

Practice 9-4

1. 12 cm^2 **2.** 24 mm^2 **3.** 6 ft^2
4. 28 m^2 **5.** 40 $in.^2$ **6.** 18 cm^2
7. 18 m^2 **8.** 20 cm^2 **9.** 56 m^2
10. Sample drawings are shown.



11. true **12.** false **13.** false

Practice 9-5

1. $\overline{OJ}, \overline{OL}, \overline{OK}$ **2.** $\overline{JK}$ **3.** $\overline{JK}, \overline{LK}$
4. 8 in. **5.** 7.5 cm **6.** 4.5 mm **7.** 24 mm
8. 31 mm **9.** 69 in. **10.** 3 m **11.** 72 ft
12. 18 cm **13.** 47 in. **14.** about 12 in.
15. about 24 cm **16.** about 36 m **17.** about 60 ft
18. about 18 in. **19.** about 60 cm **20.** 41 ft
21. 11 cm **22.** 64 m **23.** 27 in.
24. 18 cm **25.** 42 in.

Practice 9-6

1. 28.3 cm^2 **2.** 12.6 cm^2 **3.** 50.3 cm^2 **4.** 154 $in.^2$
5. 453 km^2 **6.** 10 m^2 **7.** 452.4 cm^2 **8.** 176.7 m^2
9. 63.6 cm^2 **10.** 153.9 cm^2 **11.** 1,520.5 m^2
12. 2,463.0 m^2 **13.** 50 $in.^2$ **14.** 113 $in.^2$
15. 12-inch pizza; Sample answer: The 8-inch pizza costs $.14 per square inch, while the 12-inch pizza costs $.11 per square inch

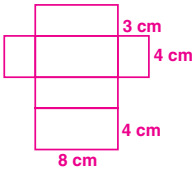
Practice 9-7

1. cylinder **2.** rectangular prism
3. triangular prism **4.** triangular pyramid
5. rectangular prism **6.** pentagonal pyramid
7. cone **8.** hexagonal prism
9. triangle **10.** 6; 12; 8

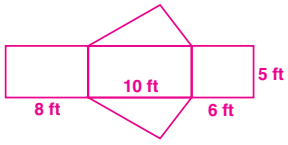
Practice 9-8

1–3. Sample answers

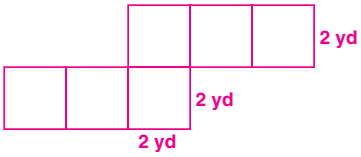
1.



2.



3.



4. 64 $in.^2$ **5.** 339 m^2 **6.** 236 ft^2
7. 16 $in.^2$ **8.** 104 $in.^2$ **9.** 94 yd^2
10. 162 $in.^2$ **11.** 70 cm^2 **12.** 44.7 $in.^2$
13. 206 $in.^2$

Practice 9-9

1. 168 cm^3 **2.** 125 $in.^3$ **3.** 96 ft^3 **4.** 360 cm^3
5. 819 $in.^3$ **6.** 63 cm^3 **7.** 1,041 m^3 **8.** 4,310 ft^3
9. 653 ft^3 **10.** 2,155 ft^3 **11.** 4,ß948 ft^3
12. 12 ft^3 **13.** 10,500 ft^3 **14.** 113 $in.^3$

Practice 9-10

1. $27 **2.** $456 **3.** 18 eggs **4.** $24
5. 20 **6.** 7:17 A.M. **7.** May 7

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