Name _____ Class _____ Date _____

Chapter 6 Answers

Practice 6-1

1. 3 : 2; $\frac{3}{2}$; 3 to 2 **2.** 5 : 7; $\frac{5}{7}$; 5 to 7 **3.** 3 : 7; $\frac{3}{7}$, 3 to 7
4. 7 : 3; $\frac{7}{3}$; 7 to 3 **5.** 5 : 2; $\frac{5}{2}$; 5 to 2 **6.** 2 : 3; $\frac{2}{3}$; 2 to 3
7. 2 : 7; $\frac{2}{7}$; 2 to 7 **8.** 3 : 5; $\frac{3}{5}$; 3 to 5 **9.** 7 : 5; $\frac{7}{5}$; 7 to 5
10. $\frac{6}{1}$ **11.** $\frac{2}{3}$ **12.** $\frac{3}{2}$ **13.** $\frac{3}{1}$ **14.** $\frac{1}{4}$ **15.** $\frac{4}{1}$
16. $\frac{1}{6}$ **17.** $\frac{1}{2}$ **18.** 5 **19.** 24 **20.** 17 **21.** 20
22. 23 **23.** 45 **24.** 8 **25.** 7 **26.** 3

Practice 6-2

1. 22 breaths per minute **2.** 8 players per team
3. 30 miles per hour **4.** $\frac{1}{2}$ page per minute
5. 12 questions per quiz **6.** $.75 per package
7. $\frac{12 \text{ in.}}{1 \text{ ft.}} = \frac{72 \text{ in.}}{6 \text{ ft.}}$ **8.** $\frac{\$8.50}{1 \text{ shirt}} = \frac{\$34}{4 \text{ shirts}}$
9. $\frac{365 \text{ days}}{1 \text{ year}} = \frac{1,095 \text{ days}}{3 \text{ years}}$ **10.** $\frac{6 \text{ cans}}{1 \text{ box}} = \frac{66 \text{ cans}}{11 \text{ boxes}}$
11. $\frac{5 \text{ students}}{1 \text{ group}} = \frac{25 \text{ students}}{5 \text{ groups}}$ **12.** $\frac{70 \text{ pages}}{1 \text{ notebook}} = \frac{560 \text{ pages}}{8 \text{ notebooks}}$
13. $.50/pound **14.** $.30/ounce
15. $.60/pen **16.** $12/book
17. $7.33/shirt **18.** $1.40/tape

Practice 6-3

1. no **2.** no **3.** yes **4.** yes **5.** yes **6.** no
7. no **8.** yes **9.** 12 **10.** 30 **11.** 14 **12.** 8
13. 28 **14.** 12 **15.** 4 **16.** 4
17. about 12,320 families **18.** 2,808 families
19. Sample answer: 2,100,000 people

Practice 6-4

1. yes **2.** yes **3.** no **4.** yes **5.** no
6. no **7.** yes **8.** no **9.** 21 **10.** 24
11. 9 **12.** 3 **13.** 5 **14.** 2 **15.** 9
16. 26 **17.** $75 **18.** 24 adults
19. 37.5 ounces **20.** $63.96 **21.** about 31 errors

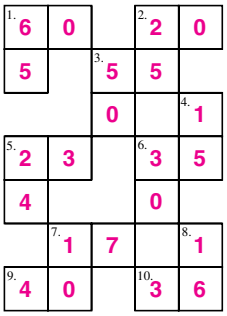
Practice 6-5

1. 8 m **2.** 22.5 ft **3.** 12 ft **4.** 22.5 mm
5. 100 cm **6.** 52.5 cm **7.** Check students' answers.
8. 1 in. : 12 feet **9.** $13\frac{1}{2}$ feet

Practice 6-6

1. 0.46; $\frac{23}{50}$ **2.** 0.17; $\frac{17}{100}$ **3.** 0.9; $\frac{9}{10}$ **4.** 0.05; $\frac{1}{20}$
5. 2%; $\frac{1}{50}$ **6.** 45%; $\frac{9}{20}$ **7.** 40%; $\frac{2}{5}$ **8.** 92%; $\frac{23}{25}$
9. 0.6; 60% **10.** 0.7; 70% **11.** 0.52; 52% **12.** 0.85; 85%

Table: 75%; 80%; 85%; 78%; 84%; 76%; 87%; 90%



Practice 6-7

1. 3 **2.** 32 **3.** 9 **4.** 12.6 **5.** 108
6. 455 **7.** 21 **8.** 50.4 **9.** 30 **10.** 40.5
11. 11.28 **12.** 7.8 **13.** 29.6 **14.** 4 **15.** 504
16. 684 **17.** 137.5 **18.** 75.6 **19.** 46.2 **20.** 212
21. 12 gallons **22.** 24 games **23.** $162
24. 308; 364; 210; 140; 140; 238

Practice 6-8

1. 48 **2.** 100 **3.** 50 **4.** 56 **5.** 18
6. 16 **7.** 80 **8.** 120 **9.** 175 **10.** 75
11. Sample answer: $3.50 **12.** Sample answer: $180
13. Sample answer: $0.78 tax; $13.78 total
14. Sample answer: $11,200 **15.** Sample answer: $66.50

Practice 6-9

1. $\$50.00 - \$16.00 = \$34.00; x = \$34.00 \div 5; x = \$6.80$
2. $100\% - 13\% = 87\%; x = \$7.95 \times 87\%; x = \$6.92$
3. $100\% - 4\% = 96\%; x = \$650{,}000 \times 96\%;$ $x = \$624{,}000$
4. 4 hr × 3 days = 12 hours/week; $12 \times \$6.50 = \$78$/week; $x = \$525 \div \$78; x = 6.7$; 7 weeks
5. Sample answer: The car in the state with sales tax costs $3,482.85. It is the better buy.
6. 78%

Reteaching 6-1

1–8. Sample answers are given.
1. $\frac{4}{10}, \frac{6}{15}, \frac{8}{20}$ **2.** $\frac{2}{6}, \frac{3}{9}, \frac{4}{12}$ **3.** $\frac{6}{8}, \frac{9}{12}, \frac{15}{20}$ **4.** $\frac{10}{16}, \frac{15}{24}, \frac{20}{32}$
5. $\frac{4}{14}, \frac{6}{21}, \frac{8}{28}$ **6.** $\frac{2}{10}, \frac{3}{15}, \frac{4}{20}$ **7.** $\frac{24}{40}, \frac{36}{60}, \frac{48}{80}$ **8.** $\frac{12}{32}, \frac{18}{48}, \frac{24}{64}$
9. $\frac{2}{1}$ **10.** $\frac{7}{12}$ **11.** $\frac{18}{25}$ **12.** $\frac{12}{5}$ **13.** $\frac{5}{8}$
14. $\frac{1}{3}$ **15.** $\frac{5}{8}$ **16.** $\frac{4}{1}$ **17.** 12 **18.** 50
19. 108 **20.** 70 **21.** 3 **22.** 360 **23.** 500
24. 35 **25.** 72

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