Chapter 7

Chapter Opener

Math in the Real World (p. 327)

Let x = the decrease in price from the sale.

Decrease = $\frac{1}{3}$ · Original price

$x = \frac{1}{3}(18)$

$x = 6$

Sale price = Original price − Decrease = $18 − 6 = 12$

The sale price of the hat is $12.

Prerequisite Skills Quiz (p. 328)

1. $4:12, \frac{4}{12}$

2. $\begin{array}{r} 0.625 \\ 8)5.000 \\ \underline{4\,8} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$

$\frac{5}{8} = 0.625$

3. $\begin{array}{r} 0.12 \\ 25)3.00 \\ \underline{2\,5} \\ 50 \\ \underline{50} \\ 0 \end{array}$

$\frac{3}{25} = 0.12$

4. $0.35 = \frac{35}{100} = \frac{5 \cdot 7}{5 \cdot 20} = \frac{7}{20}$

5. $0.175 = \frac{175}{1000} = \frac{25 \cdot 7}{25 \cdot 40} = \frac{7}{40}$

6. $\frac{3}{4} = \frac{x}{16}$

$3 \cdot 16 = 4y$

$48 = 4y$

$\frac{48}{4} = \frac{4y}{4}$

$12 = y$

7. $\frac{30}{48} = \frac{10}{k}$

$30k = 48 \cdot 10$

$30k = 480$

$\frac{30k}{30} = \frac{480}{30}$

$k = 16$

8. $\frac{7.5}{x} = \frac{5}{8}$

$8 \cdot 7.5 = 5x$

$60 = 5x$

$\frac{60}{5} = \frac{5x}{5}$

$12 = x$

9. $\frac{r}{6} = \frac{10.5}{9}$

$9r = 6 \cdot 10.5$

$9r = 63$

$\frac{9r}{9} = \frac{63}{9}$

$r = 7$

Lesson 7.1

7.1 Checkpoint (pp. 329–330)

1. $51\% = \frac{51}{100}$

2. $25\% = \frac{25}{100} = \frac{1}{4}$

3. $\frac{11}{20} = \frac{11 \cdot 5}{20 \cdot 5} = \frac{55}{100} = 55\%$

4. $\frac{4}{25} = \frac{4 \cdot 4}{25 \cdot 4} = \frac{16}{100} = 16\%$

5. There are 10 possible outcomes, and 1 outcome is favorable.

$P(\text{you win}) = \frac{1}{10} = 10\%$

The probability that you will win is 10%.

6. 25% of 36 = $\frac{1}{4} \cdot 36 = \frac{36}{4} = 9$

7. 70% of 70 = $\frac{7}{10} \cdot 70 = \frac{490}{10} = 49$

8. 50% of 14 = $\frac{1}{2} \cdot 14 = \frac{14}{2} = 7$

9. 75% of 80 = $\frac{3}{4} \cdot 80 = \frac{240}{4} = 60$

7.1 Guided Practice (p. 331)

1. A percent is a ratio whose denominator is 100.

2. Sample answer: To write $\frac{13}{25}$ as a percent, the denominator must be 100. So, multiply the numerator and denominator by 4:

$\frac{13}{25} = \frac{13 \cdot 4}{25 \cdot 4} = \frac{52}{100} = 52\%$.

So, $\frac{13}{25} = 52\%$.

3. $65\% = \frac{65}{100} = \frac{13}{20}$

4. $98\% = \frac{98}{100} = \frac{49}{50}$

5. $\frac{12}{25} = \frac{12 \cdot 4}{25 \cdot 4} = \frac{48}{100} = 48\%$

6. $\frac{9}{10} = \frac{9 \cdot 10}{10 \cdot 10} = \frac{90}{100} = 90\%$

7. (1) 75% of 152 = $\frac{3}{4} \cdot 152 = \frac{456}{4} = 114$

You had 114 successful first serves.

(2) 60% of 125 = $\frac{3}{5} \cdot 125 = \frac{375}{5} = 75$

Your opponent had 75 successful first serves.

(3) $114 − 75 = 39$

You had 39 more successful first serves than your opponent.

7.1 Practice and Problem Solving (pp. 331–333)

8. $34\% = \frac{34}{100} = \frac{17}{50}$

9. $40\% = \frac{40}{100} = \frac{2}{5}$

10. $71\% = \frac{71}{100}$

11. $27\% = \frac{27}{100}$

12. $55\% = \frac{55}{100} = \frac{11}{20}$

13. $18\% = \frac{18}{100} = \frac{9}{50}$

14. $90\% = \frac{90}{100} = \frac{9}{10}$

15. $85\% = \frac{85}{100} = \frac{17}{20}$

16. $\frac{4}{5} = \frac{4 \cdot 20}{5 \cdot 20} = \frac{80}{100} = 80\%$

17. $\frac{3}{25} = \frac{3 \cdot 4}{25 \cdot 4} = \frac{12}{100} = 12\%$

18. $\frac{9}{20} = \frac{9 \cdot 5}{20 \cdot 5} = \frac{45}{100} = 45\%$

19. $\frac{7}{10} = \frac{7 \cdot 10}{10 \cdot 10} = \frac{70}{100} = 70\%$

20. $\frac{33}{50} = \frac{33 \cdot 2}{50 \cdot 2} = \frac{66}{100} = 66\%$

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McDougal Littell Incorporated,Ron Larson

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