Contemporary Mathematics for Business and Consumers, 9e
Solutions to Jump Start Section Review Exercises

Chapter 1, Section I

1. 22,938 Twenty-two thousand, nine hundred thirty-eight

7. 183,622

10. b 102,470

15. 1,760

Chapter 1, Section II

1.
```
  45
  27
+ 19
  91
```

8.

		Estimate	
	288	300	Rounded Estimate 6,800
	512	500	
	3,950	4,000	Exact Answer 6,694
+	1,944	+ 2,000	
	6,694	6,800	

16.
```
  354
– 48
  306
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Chapter 1, Section III

1.
```
  589
×  19
11,191
```

9.

		Estimate	
	202	200	Rounded Estimate 100,000
×	490	× 500	
	98,980	100,000	Exact Answer 98,980

Chapter 1, Section III (Continued)

17. 128 R 20

$$35\overline{)4500}$$

35
100
70
300
280
20

21. 890 ÷ 295

Estimate
900 / 300

Rounded Estimate 3

Exact Answer 3 R 5

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Chapter 2, Section I

1. $23\frac{4}{5}$ Mixed Twenty-three and four-fifths

6. $\frac{26}{8} = 3\frac{2}{8} = 3\frac{1}{\underline{\underline{4}}}$

12. $6\frac{1}{2} = \frac{13}{\underline{\underline{2}}}$ $(6 \times 2 + 1 = 13)$

18. $\frac{21 \div 7}{35 \div 7} = \frac{3}{\underline{\underline{5}}}$

30. $\frac{2}{3}$ to twenty-sevenths $\frac{2}{3} = \frac{18}{\underline{\underline{27}}}$ $\begin{pmatrix} 27 \div 3 = 9 \\ 9 \times 2 = 18 \end{pmatrix}$

Chapter 2, Section II

1. $\frac{4}{5}, \frac{2}{3}, \frac{8}{15}$ $3 \times 5 = \underline{15 \text{ LCD}}$

3	5	3	15
5	5	1	5
	1	1	1

7. $\frac{5}{6} + \frac{1}{2}$

$\frac{5}{6}$

$+ \frac{3}{6}$

$\frac{8}{6} = 1\frac{2}{6} = 1\frac{1}{\underline{\underline{3}}}$

21. $\frac{5}{6} - \frac{1}{6} = \frac{4}{6} = \frac{2}{\underline{\underline{3}}}$

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Chapter 2, Section III

1. $\frac{2}{3} \times \frac{4}{5} = \underline{\underline{\frac{8}{15}}}$

19. $\frac{5}{6} \div \frac{3}{8}$

$\frac{5}{\cancel{6}_{3}} \times \frac{\cancel{8}^{4}}{3} = \underline{\underline{2\frac{2}{9}}}$

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Chapter 3, Section I

1. .21 Twenty-one hundredths

11. Eight tenths .8

17. .448557 to hundredths 0.448557 = 0.45

Chapter 3, Section II

1. 2.03 + 56.003

$$\begin{array}{r} 2.030 \\ +\ 56.003 \\ \hline 58.033 \end{array}$$

20.
$$\begin{array}{r} 45.77 \\ \times\ \ 12 \\ \hline 549.24 \end{array}$$

28. 24.6 ÷ 19 1.294 = 1.29

Chapter 3, Section III

1. .125

$$\frac{125}{1{,}000} = \frac{1}{8}$$

6. $\frac{9}{16}$ .5625 = .56

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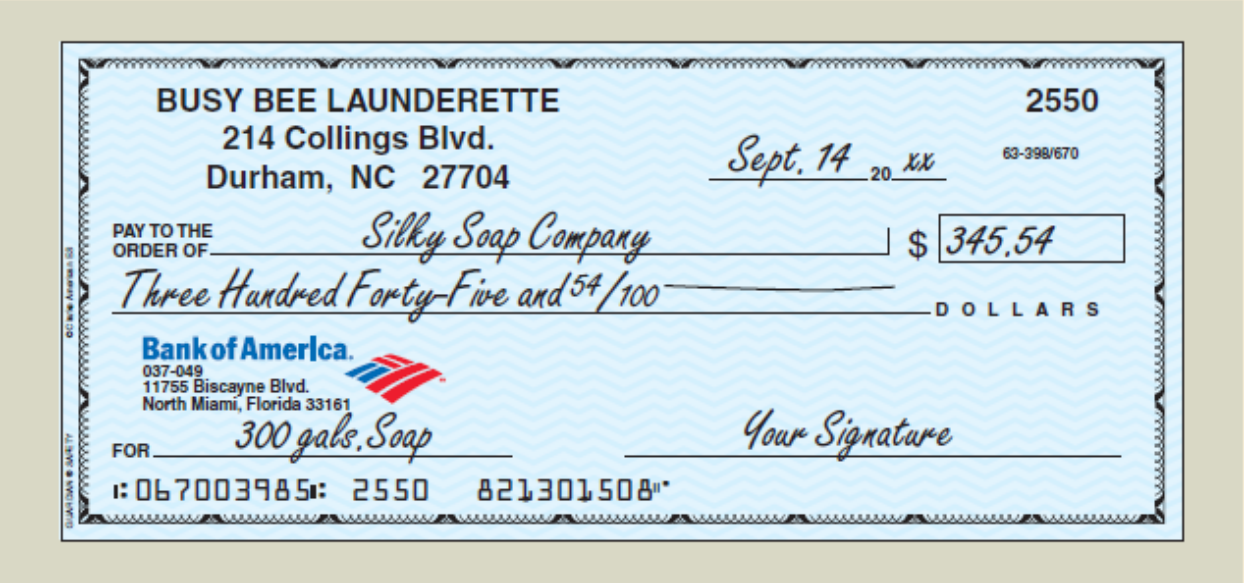
Chapter 4, Section I

1. Check # 2550, September 14, 20xx, in the amount of $345.54 to the silky Soap Company for 300 gallons of liquid soap.



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Chapter 5, Section I

1. $B + 11 = 24 \quad B = \underline{\underline{13}}$

18.
5 times G divided by R

$$\underline{\underline{\frac{5G}{R}}}$$

26. A number increased by 24 is 35 $\underline{\underline{X + 24 = 35}}$

Chapter 5, Section II

1.
Karen = X
Kathy = X - 8

$$\begin{array}{r} X + X - 8 = 86 \\ 2X - 8 = 86 \\ +8 \quad +8 \\ \hline 2X = 94 \end{array}$$

$$\frac{2X}{2} = \frac{94}{2}$$

$X = \underline{\underline{47}}$ Karen's sales

$X - 8 = 47 - 8 = \underline{\underline{39}}$ Kathy's sales

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Chapter 6, Section I

1. 28% .28

11. 3.5 350%

21. 5% $\frac{5}{100} = \frac{1}{20}$

31. $\frac{3}{4}$ .75 = 75%

Chapter 6, Section II

1. 15% of 380 is _____ $P = R \times B = .15 \times 380 = 57$

11. 40 is _____% of 125 $R = \frac{P}{B} = \frac{40}{125} = .32 = 32\%$

21. 69 is 15% of _____ $B = \frac{P}{R} = \frac{69}{.15} = 460$

Chapter 6, Section III

1. Portion = Increase = 440 – 320 = 120

   Base = Original number = 320 $R = \frac{P}{B} = \frac{120}{320} = .375 = 37.5\%$

5. 50 increased by 20% = _____

   Rate = 100% + 20% = 120%

   Base = Original number = 50

   $P = R \times B = 1.2 \times 50 = 60$

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Solutions to Jump Start Section Review Exercises

Chapter 7, Section I

1. Box

5. Gross

9. Seller Panorama Products

10. Invoice number R-7431

Chapter 7, Section II

1 Trade discount = 860.00 × .30 = $258.00

6. Trade Discount = 286.00 × .25 = $71.50
Net Price 286.00 − 71.50 = $214.50

10. Net Price Factor = 100% − 37% = 63%
Net Price = $3,499.00 × .63 = $2,204.37

14. Trade Discount = $4,500.00 − 3,565.00 = $935.00
Trade Discount Rate = $\frac{935.00}{4,500.00}$ = .2077 = 20.8%

Chapter 7, Section III

1. Net Price Factor = 100% − 12% = .88 100% − 10% = .90 .88 × .90 = .792
Net Price = 360.00 × .792 = $285.12

7. Net price factor = .85 × .90 = .765
Single equivalent discount = 1 − .765 = .235

12. Net Price Factor = .85 × .95 × .95 = .76713
Single Equivalent Discount = 1.00 − .76713 = .23287
Trade Discount = $7,800.00 × .23287 = $1,816.39
Net Price = $7,800.00 × .76713 = $5,983.61

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Chapter 7, Section IV

1. Cash Discount = \$15,800.00 × .03 = \$474.00
   NAD = \$15,800.00 − \$474.00 = \$15,326.00

6. Credit for partial payment = $\frac{\$2,500}{.98}$ = \$2,551.02
   NAD = \$8,303.00 − \$2,551.02 = \$5,751.98

10. Discount date = Nov. 4 + 10 = Nov. 14
    Net Date = Nov. = 30 − 4 = 26
    45 − 26 = 19 Dec. 19

15. Discount Date = Dec. + 10 = Jan. 10
    Net Date = Jan. 30