

# 3

Student: \_\_\_\_\_

1. The number to the right of the decimal is the hundredths place.  
True False
2. A mixed decimal does not contain a whole number.  
True False
3. .3, .30, and .300 have the same value.  
True False
4. A proper fraction is converted to a decimal equivalent by dividing the denominator into the numerator.  
True False
5. The rules of rounding are completely different for decimals compared to whole numbers.  
True False
6. In division, the decimal is never moved in the divisor.  
True False
7. When multiplying decimals, you should disregard the decimals and multiply the whole numbers. In the product, the total of the decimal places from the multiplier and multiplicand is inserted into the product, starting at the left and counting in the number of places to the right.  
True False
8. .04 is 4 tenths.  
True False
9. 5,000 Mexican pesos equals \$630.00 in U.S. currency. (Use Handbook)  
True False
10.  $1/15$  results in a repeating decimal.  
True False
11. .000009 is 9 hundred thousandths.  
True False
12. Stock quotations are expressed in decimals.  
True False
13. \$600 in U.S. currency is equal to \$660 in Canadian currency.  
True False
14. .42 is equal to  $42/100$ .  
True False
15.  $.06\frac{3}{4}$  is equal to  $675/10,000$ .  
True False
16.  $5/6$  in decimal is .875.  
True False
17. .46 rounded to the nearest tenth is .5.  
True False

18. 75.9914 rounded to the nearest hundredth is 75.99.  
True False
19. .14382 rounded to the nearest thousandth is .144.  
True False
20. In decimal nine-tenths is .9.  
True False
21. In decimal nine thousand four hundred eighty-one ten thousandths is .09481.  
True False
22. .817 converted to a fraction is  $\frac{817}{1,000}$ .  
True False
23.  $4\frac{2}{7}$  converted to a decimal and rounded to the nearest thousandth is 4.285.  
True False
24.  $1.4 + .14 + 20.001$  equals 21.451.  
True False
25. 5.11 times 6.5 equals 33.215.  
True False
26. 275 divided by 1.5 equals 183.33 rounded to the nearest thousandth.  
True False
27. 6,690 divided by 10,000 equals .6690.  
True False
28. 29.41 minus .008 equals 29.402.  
True False
29. 6.33 times 7.41 = 46.9053.  
True False
30. The decimal equivalent of  $\frac{1}{7}$  is .143 to the nearest thousandth.  
True False
31. A.J. Ryan bought 500 shares of Google at \$364.55 per share. Assuming no commission, what did Ryan spend?  
A. \$128,275  
B. \$145,820  
C. \$154,820  
D. \$182,275  
E. None of these
32. Roast beef at Albertson's was \$4.225 per pound. At Shop and Stop it was \$3.881 per pound. How much cheaper is Stop and Shop per pound?  
A. \$.344  
B. \$.0344  
C. \$.00344  
D. \$1.344  
E. None of these

33. Lester Moy bought two new Michelin Tires for his car at \$99.55 per tire. He was also charged \$4.95 per tire for mounting, \$2.65 per tire for valves, and \$3.99 per tire for balancing. What was Lester's final bill?
- A. \$199.10
  - B. \$208.10
  - C. \$213.30
  - D. \$222.28
  - E. None of these
34. Pumpkins at a local farm sell for \$.49 per pound. Jim Ring spent \$73.50. How many pounds of pumpkins were purchased?
- A. 100
  - B. 150
  - C. 510
  - D. 110
  - E. None of these
35. Jeff Jones has locked in an oil delivery price of \$1.95 per gallon. His tank holds 210 gallons. If Jeff has six fill-ups during the winter, what will be his total cost?
- A. \$2,457
  - B. \$2,547
  - C. \$4,095
  - D. \$2,047.50
  - E. None of these
36. North Shore Community College reimburses faculty members \$.298 cents per mile to go to a workshop. Professor Wales submitted her travel log for a total of 650.11 miles. What reimbursement can Professor Wales expect? (Round to the nearest cent.)
- A. \$193.70
  - B. \$193.71
  - C. \$193.72
  - D. \$193.73
  - E. None of these
37. The Weather Channel reported that normal snowfall is 138.44 inches for Lexington County. This winter the following snowfall occurred:
- |                   |               |
|-------------------|---------------|
| December. . . . . | 18.46 inches  |
| January . . . . . | 15.438 inches |
| February. . . . . | 18.999 inches |
| March . . . . .   | 24.861 inches |
- How much was the snowfall below normal?
- A. 22.682 inches
  - B. 23.682 inches
  - C. 26.682 inches
  - D. 25.682 inches
  - E. None of these
38. Dave Adams bought season tickets for the Boston Celtics. The cost was \$1,300.11. The package included 30 home games. What is the average price of the tickets per game? Round to the nearest cent.
- A. \$43.30
  - B. \$43.34
  - C. \$44.44
  - D. \$43.37
  - E. None of these

39. Printed pencils cost \$.33  $\frac{1}{3}$  each for an order of 18,000 pencils. On Monday Jim Co. placed an order for 18,000 pencils. What is the exact cost of the pencils for Jim Co.? Be sure to use the fractional equivalent in your calculation.
- A. \$5,940
  - B. \$5,994
  - C. \$5,999.40
  - D. \$6,000
  - E. None of these
40. If Jan sells 2,500 glow sticks on the Fourth of July at \$1.99 each, what will her total profit be if each stick cost her \$.88?
- A. \$2,757
  - B. \$3,000
  - C. \$2,775
  - D. \$20,757
  - E. None of these
41. The average pay of employees is \$399.44 per week at a local True Value Hardware store. Jay Miller earns \$411.11 per week. How much is Jay's pay over the average?
- A. \$16.17
  - B. \$17.16
  - C. \$11.76
  - D. \$11.67
  - E. None of these
42. Joyce went to Lowes to buy carpeting. She will need 88.4 sq. yards for downstairs, 15.1 sq. yards for the halls, and 177.18 sq. yards for the upstairs bedrooms. She chose a commercial carpet that costs \$18.11 per sq. yard. Joyce ordered foam padding at \$3.25 per sq. yard. The installers quoted Joyce a labor cost of \$4.25 per sq. yard for installation. What will the total job cost Joyce?
- A. \$8,871.21
  - B. \$8,781.21
  - C. \$7,188.21
  - D. \$7,88.21
  - E. None of these
43. Abby is touring China for four days. The car rental is \$38.15 per day plus 12  $\frac{1}{2}$  cents per mile. If Abby drives 380.5 miles, how much does she owe the rental company?
- A. \$152.60
  - B. \$200.16
  - C. \$475.56
  - D. \$201.16
  - E. None of these
44. B. Brady signed a new basketball contract for the year for \$1,005,000. Assuming a schedule of 13 games, what are his earnings per game?
- A. \$73,707.69
  - B. \$63,707.69
  - C. \$79,307.69
  - D. \$77,307.69
  - E. None of these
45. Mike Roland traveled 10,850 miles. His Ford truck averaged 16 miles per gallon. Assuming a gallon of gas cost \$2.10, what was Mike's gasoline cost for the trip?
- A. \$1,404.06
  - B. \$1,400.06
  - C. \$1,442.06
  - D. \$1,444.06
  - E. None of these

46. Nancy Billows bought 150 shares of NBC Universal stock at \$22.885 per share. Her broker charged her \$22.05 for the brokerage commission. What is the average cost per share (include brokerage fee) to the nearest cent?
- A. \$23.03
  - B. \$20.03
  - C. \$32.03
  - D. \$33.02
  - E. None of these
47. Last week Alice Roe earned wages of \$459.82. Payroll deductions included Social Security for \$33.19 and federal income tax of \$82.91. What is Alice's net pay?
- A. \$426.63
  - B. \$343.27
  - C. \$462.36
  - D. \$343.72
  - E. None of these
48. Melvin Small typed 485 business letters. The cost of writing these letters was estimated to be \$3,455.25. What was the average cost of a letter to the nearest cent?
- A. \$7.13
  - B. \$7.11
  - C. \$7.12
  - D. \$7.14
  - E. None of these
49. Jill traveled to Canada and bought a new lamp for \$460. In U.S. dollars (to the nearest cent) this is equivalent to:
- A. \$366.57
  - B. \$577.25
  - C. \$517.77
  - D. \$480.66
  - E. None of these
50. Norm's electric bill for December 2013 was \$149.32. In 2014 the electric bill was \$194.31. Next year Norm expects the bill to be the 2013 amount plus \$25.00 more than the difference between 2013 and 2014. What is the new bill expected to be?
- A. \$44.99
  - B. \$194.31
  - C. \$219.31
  - D. \$69.99
  - E. None of these
51. Jim sells college textbooks. To date Jim has sold \$141,002 worth of textbooks. His sales quota is \$194,159. Tomorrow he expects to sell \$15,005 worth of textbooks to B College. His last stop will be Munroe College. What must he sell there to meet his quota?
- A. \$38,152
  - B. \$38,251
  - C. \$53,157
  - D. \$53,175
  - E. None of these
52. Facebook's initial IPO was \$38 per share. Arianna purchased 616 shares. Assuming a cost of \$7.00 to purchase the 616 shares, what was Arianna's total cost?
- A. \$23,415
  - B. \$22,514
  - C. \$23,408
  - D. \$20,000
  - E. None of these

53. On December 10, 1999, Apple Computers' stock was valued at \$615 billion; Microsoft's stock was valued in that quarter at \$271 billion. How much more value is Apple's stock at its peak over Microsoft?
- \$886 billion
  - \$400 billion
  - \$304 billion
  - \$344 billion
  - None of these
54. Best Buy sold 638 iPads during the month of May for a total, including tax, of \$296,963.48; what was the average cost to the consumer?
- \$465.46
  - \$465.00
  - \$464.99
  - \$470.00
  - None of these
55. In 2010, America's Healthcare cost \$14,009 per family. Assuming a growth rate of 8.5% a year with a forecasted cost of \$21,065 in 2015, how much more will a family pay in 2015?
- \$35,074
  - \$16,492
  - \$17,894
  - \$7,056
  - None of these
56. During the great recession that began in January 2008, average weekly claims for unemployment were 420,000. The normal weekly average during full employment is 122,000. How many more people were filing for unemployment in January 2008?
- 298,000
  - 542,000
  - 288,000
  - 400,000
  - None of these

57. Match the following terms with their definitions.

- |                        |  |     |
|------------------------|--|-----|
| 1. Mixed decimal.      | Two places to the right of decimal.                          | ___ |
| 2. Pure decimal.       | Number written with a decimal point.                         | ___ |
| 3. Rounding decimals.  | Decimal represents same value as the fraction.               | ___ |
| 4. Decimal.            | No whole number(s) to the left of the decimal point.         | ___ |
| 5. Decimal point.      | Position between units and tenths.                           | ___ |
| 6. Repeating decimal.  | Whole number and decimal.                                    | ___ |
| 7. Decimal equivalent. | Numbers repeat themselves to the right of the decimal point. | ___ |
| 8. Hundredth.          | Reducing decimal to indicated position.                      | ___ |

58. Convert to proper fraction or mixed number (do not reduce to lowest terms): .8

59. Convert to proper fraction or mixed number (do not reduce to lowest terms):  
5.27

60. Convert to proper fraction or mixed number (do not reduce to lowest terms): .851

61. Convert fraction to decimal (or mixed decimals and round to nearest hundredth):  
 $\frac{5}{7}$

62. Convert fraction to decimal (or mixed decimals and round to nearest hundredth):  
 $\frac{1}{7}$

63. Convert fraction to decimal (or mixed decimal and round to nearest hundredth):  
 $13 \frac{6}{7}$

64. Subtract  $9.1581 - 2.85$

65. Multiply (round solution to nearest hundredth):  
 $9.158 \times 14.382$

66. Divide (round to nearest tenth):  
 $118,000 \div 3.95$

67. Complete by shortcut method:  
 $43.81 \times 1,000$

68. Complete by shortcut method:  
 $11,896.413 \times 1,000$

69. Complete by shortcut method:  
 $3,069.44 \div 1,000$

70. Jim Smith has two options in buying a typewriter. He could pay cash of \$225 or \$30 down and 15 monthly payments of \$19. If he pays cash, how much does he save?
71. Rene Roller bought a new computer for \$1,499. What would the same computer cost in Canada? (Round to the nearest cent.) Use table in Handbook.
72. Mel Doane is taking his office staff out to lunch. He has left on his credit card a spending limit of \$99.50. If the total meal includes two fruit cups, two onion soups, two veal, two roast beef, three coffees, and one soft drink, will Mel be able to use the card? (Disregard tip plus tax.) If so, how much more charging will Mel be allowed before hitting his credit limit?

Appetizers

---

Fruitcup	\$1.85
Onion Soup	2.95

Entrees

---

Roast Beef	\$11.95
Veal	10.45
Haddock	14.50

Beverage

---

Coffee	.95
Soft Drinks	1.50

73. To grow grass in Mel Smith's yard, a landscaper estimates that he will need 55 pounds of grass seed. Each pound will cost Mel \$1.83. The landscaper will also charge Mel six hours of labor at \$12.50 per hour. If Mel pays early, he will be entitled to a cash discount of \$3.50. Assuming Mel takes advantage of the discount, how much does he pay the landscaper?

74. Total the following:

Six hundred sixty-eight and eight hundred one thousandths

Twelve and forty-nine hundredths

Three and four thousandths

Fifty-one hundredths

Three hundred ten and four tenths

75. Convert decimal fraction to decimal:  
 $\frac{8}{10}$

76. Convert decimal fraction to decimal:  
 $\frac{19}{100}$

77. Convert decimal fraction to decimal:  
 $\frac{16}{1,000}$

78. Convert to proper fraction or mixed number (do not reduce to lowest terms): .6

79. Convert to proper fraction or mixed number (do not reduce to lowest terms):  
3.88

80. Convert to proper fraction or mixed number (do not reduce to lowest terms): .823

81. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth as needed:  
 $\frac{4}{7}$

82. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth as needed:  
 $\frac{2}{9}$

83. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth as needed:  
 $4\frac{6}{7}$

84. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth as needed:

$$\frac{1}{3}$$

85. Rearrange and add:

$$3.5, 10.86, 7.482, 150.0413, 89.1$$

86. Subtract and round to nearest tenth:

$$13.685 - 4.12$$

87. Multiply (round solution to nearest hundredth):

$$7.541 \times 12.943$$

88. Divide (round to nearest tenth):

$$338,182 \div 6.94$$

89. Complete by the shortcut method:

$$68.325 \times 1,000$$

90. Complete by the shortcut method:

$$3,002,118.395 \times 100$$

91. The average weekly pay at Wendy's is \$412.88. Bill Long earns \$485.11. How much is Bill over the average?

92. Professor Burns attended a computer seminar at IBM. The college reimburses Professor Burns at \$.41 per mile. Professor Burns traveled 520.4 miles. What will the college pay Professor Burns? (Round to nearest cent.)

93. Pete Smith bought two new car tires from Firestone for \$89.95 per tire. Firestone charged Pete \$3.25 per tire for mounting, \$2.60 per tire for valves, and \$3.80 per tire for balancing. What is Pete's final bill?

94. Convert to proper fraction or mixed number (do not reduce to lowest terms): .7

95. Convert to proper fraction or mixed numbers (do not reduce to lowest terms):  
4.31

96. Convert to proper fraction or mixed numbers (do not reduce to lowest terms): .721

97. Convert to proper fraction or mixed numbers (do not reduce to lowest terms): .621

98. Convert to proper fraction or mixed numbers (do not reduce to lowest terms):  
6.31

99. Convert to proper fraction or mixed numbers (do not reduce to lowest terms): .9

100. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth:  
 $\frac{4}{9}$

101. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth:  
 $\frac{1}{8}$

102. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth:

$$14 \frac{5}{7}$$

103. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth:

$$\frac{3}{7}$$

104. Convert fraction to decimal (or mixed decimal) and round to nearest hundredth:

$$\frac{2}{5}$$

105. Subtract:

$$8.1432 - 3.17$$

106. Subtract:

$$12.19432 - 10.005$$

107. Multiply (round solution to nearest hundredth):

$$8.143 \times 13.281$$

108. Multiply (round solution to nearest hundredth):

$$4.325 \times 11.183$$

109. Divide (round to nearest tenth):

$$115,000 \div 2.85$$

110. Divide (round to nearest tenth):

$$182,185 \div 3.24$$

111. Complete by shortcut method:

$$32.61 \times 100$$

112. Complete by shortcut method:

$$10,591.828 \times 1,000$$

113. Complete by shortcut method:

$$2,059.32 \div 1,000$$

114. Complete by shortcut method:

$$41.82 \times 100$$

115. Complete by shortcut method:

$$8,194.335 \times 1,000$$

116. Complete by shortcut method:

$$18,915.32 \div 1,000$$

117. Write the decimal form for the following:

Four tenths

118. Write the decimal form for the following:

Three ten thousandths

119. Write the decimal form for the following:

One hundred twenty thousandths

120. Write the decimal form for the following:

Nine tenths

121. Write the decimal form for the following:

Twenty hundredths

122. Write the decimal form for the following:

Twelve ten thousandths

123. Jan Smith bought a new food processor for \$49.88. Jan gave the salesperson a \$100 bill. What change did Jan receive?

124. The average pay of employees is \$298.60 per week. John Morse earns \$372.80 per week. How much is John's pay over the average?

125. The price of deli cuts was \$2.255 per pound at Bill's Market. Bob's Market advertises the same deli cuts for \$1.999. How much cheaper is Bob's Market per pound? (Round answer to nearest cent.)

126. The state reimburses Bill 26¢ per mile. Bill submitted his travel log for a total of 520.9 miles. What reimbursement can he expect? (Round to nearest cent.)
127. Mary is touring Washington, D.C., for three days. The car rental is \$19.25 per day plus 21 1/2¢ per mile. If Mary drives 362.95 miles, how much does she owe the rental company?
128. John Dorfman bought two new tires for his car at \$62.99 per tire. He was also charged \$2.95 per tire for mounting, \$2.65 per tire for valves, and \$3.10 per tire for balancing. What was John's final bill?
129. Alice subscribes to the symphony. The cost is \$295.55 for 32 performances. What is the average price per performance? If Alice sells you four tickets, what will they cost you? Use the rounded average cost per ticket in your calculation. (Round answer to nearest cent.)
130. Could you help John decide which product is cheaper per ounce?
- |               |                   |
|---------------|-------------------|
| Canned fruit  | Canned fruit      |
| 79¢ for 5 oz. | 89¢ for 5 1/2 oz. |

131.If Bill sells 491,010 kites at \$2.95 each, what will his total profit be if each kite cost him \$1.98?

132.The cost of a plant is \$25.95 for the florist. He purchases 300 of these hanging plants. What is the total cost to the florist?

133.Larry Hess bought a camera in Japan for 33,000 yen. What is the price in U.S. dollars? (Round to the nearest cent.)

134.Rene Rodrigues vacationed in Mexico and spent 9,200 pesos. What would this be in U.S. dollars? (Round to the nearest cent.)

135.The Lange family vacationed in Mexico and spent 12,500 pesos. What would this be in U.S. dollars? (Round to the nearest cent.)

136.Convert to proper fraction: .7191

137.Solve (do not round):

$$5.25 \times 4.617$$

138.Jamie wants to buy a new Ford Escape priced at \$20,256. If she finances the car with no down payment, her monthly payment will be \$455.76 for 48 months. If she pays cash, how much interest expense will she save?

139.Jeff has an internship in Connecticut this summer for 56 days. The company has offered him the following: \$163.88 per day for hotel and \$30.00 per day stipend. How much will Jeff's internship cost the company?

140.Convert to a decimal (do not reduce):

$$2 \frac{15}{100}$$

### 3 Key

1. The number to the right of the decimal is the hundredths place.  
**FALSE**

The decimal point determines the number place.

*Blooms: Remember*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #1*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

2. A mixed decimal does not contain a whole number.  
**FALSE**

Like a mixed fraction, there is a whole number and a part.

*Blooms: Remember*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #2*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

3. .3, .30, and .300 have the same value.  
**TRUE**

Extra zeros at the end of the decimal portion have no real value.

*Blooms: Understand*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #3*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

4. A proper fraction is converted to a decimal equivalent by dividing the denominator into the numerator.  
**TRUE**

Follow the basic rules of division and rounding.

*Blooms: Remember*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #4*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

5. The rules of rounding are completely different for decimals compared to whole numbers.  
**FALSE**

Rounding numbers and rounding decimals are the same based on the digit to the right of the identified digit being greater than or equal to 5.

*Blooms: Remember*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #5*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

6. In division, the decimal is never moved in the divisor.

**FALSE**

Always move the number in the divisor the number of places that make the divisor a whole number.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 1 Basic  
Slater - Chapter 03 #6*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

7. When multiplying decimals, you should disregard the decimals and multiply the whole numbers. In the product, the total of the decimal places from the multiplier and multiplicand is inserted into the product, starting at the left and counting in the number of places to the right.

**FALSE**

Start at the right of the product to count the number of digits to place the decimal.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 3 Challenge  
Slater - Chapter 03 #7*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

8. .04 is 4 tenths.

**FALSE**

The second place to the right of the decimal is the hundredths place.

*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*

*Level of Difficulty: 1 Basic  
Slater - Chapter 03 #8*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

9. 5,000 Mexican pesos equals \$630.00 in U.S. currency. (Use Handbook)

**FALSE**

Use the appropriate conversion value to multiply the decimal values.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #9*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

10.  $\frac{1}{15}$  results in a repeating decimal.

**TRUE**

1 divided by 15 equals .066667, which results in a repeating decimal of 6.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #10*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

11. .000009 is 9 hundred thousandths.

**FALSE**

The hundred thousandths place is five places to the right of the decimal.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 3 Challenge*  
*Slater - Chapter 03 #11*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*  
*Blooms: Understand*

12. Stock quotations are expressed in decimals.

**TRUE**

Stock quotes are expressed like money, in decimal form.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #12*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*  
*Blooms: Remember*

13. \$600 in U.S. currency is equal to \$660 in Canadian currency.

**FALSE**

Use the appropriate conversion value to multiply the decimal values.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #13*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*  
*Blooms: Remember*

14. .42 is equal to 42/100.

**TRUE**

Dividing a value by 100 results in moving the decimal two places to the left; use the shortcut rules.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #14*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*  
*Blooms: Understand*

15. .06 3/4 is equal to 675/10,000.

**TRUE**

Convert the decimal portion to a whole number first by multiplying by 100.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 3 Challenge*  
*Slater - Chapter 03 #15*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*  
*Blooms: Understand*

16.  $\frac{5}{6}$  in decimal is .875.

**FALSE**

5 divided by 6 equals .8333 where 3 is a repeating decimal

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 1 Basic  
Slater - Chapter 03 #16*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

17. .46 rounded to the nearest tenth is .5.

**TRUE**

The 5 in the hundredths place forces the 4 to round up to a 5.

*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*

*Level of Difficulty: 1 Basic  
Slater - Chapter 03 #17*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

18. 75.9914 rounded to the nearest hundredth is 75.99.

**TRUE**

The thousandths place holds a 1, which is less than 5, so the hundredths place will not change.

*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*

*Level of Difficulty: 1 Basic  
Slater - Chapter 03 #18*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

19. .14382 rounded to the nearest thousandth is .144.

**TRUE**

The 8 in the ten thousandths place is greater than 5, so the 3 will round up to a 4.

*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #19*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

20. In decimal nine-tenths is .9.

**TRUE**

The 9 will go in the tenths place, which is immediately to the right of the decimal.

*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*

*Level of Difficulty: 1 Basic  
Slater - Chapter 03 #20*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

21. In decimal nine thousand four hundred eighty-one ten thousandths is .09481.

**FALSE**

The ten thousandths place is the fourth place to the right of the decimal.

*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*

*Level of Difficulty: 3 Challenge  
Slater - Chapter 03 #21*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

22. .817 converted to a fraction is 817/1,000.

**TRUE**

The third place after the decimal is the thousandths place.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #22*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

23.  $4\frac{2}{7}$  converted to a decimal and rounded to the nearest thousandth is 4.285.

**FALSE**

2 divided by 7 equals .2857, so the answer to the thousandth place equals .286 as the 7 makes the 5 go up to 6.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #23*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

24.  $1.4 + .14 + 20.001$  equals 21.451.

**FALSE**

$1.4 + .14 + 20.001$  equals 21.541.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #24*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

25. 5.11 times 6.5 equals 33.215.

**TRUE**

5.11 times 6.5 equals 33.215.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #25*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

26. 275 divided by 1.5 equals 183.33 rounded to the nearest thousandth.

**FALSE**

Rounded to the nearest thousandth, the answer would be 183.333.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 3 Challenge  
Slater - Chapter 03 #26*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

27. 6,690 divided by 10,000 equals .6690.

**TRUE**

Use the shortcut rule to move the decimal four places to the left.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #27*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

28. 29.41 minus .008 equals 29.402.

**TRUE**

29.41 minus .008 equals the difference of 29.402.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #28*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

29. 6.33 times 7.41 = 46.9053.

**TRUE**

The product of 6.33 and 7.41 equals 46.9053.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 3 Challenge  
Slater - Chapter 03 #29*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

30. The decimal equivalent of  $\frac{1}{7}$  is .143 to the nearest thousandth.

**TRUE**

1 divided by 7 equals .1428; the 2 rounds up to a 3 because the 8 is greater than 5.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 2 Intermediate  
Slater - Chapter 03 #30*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

31. A.J. Ryan bought 500 shares of Google at \$364.55 per share. Assuming no commission, what did Ryan spend?

A. \$128,275  
B. \$145,820  
C. \$154,820  
**D. \$182,275**  
E. None of these

Multiply the number of shares by the price of the share.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*

*Level of Difficulty: 1 Basic  
Slater - Chapter 03 #31*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

32. Roast beef at Albertson's was \$4.225 per pound. At Shop and Stop it was \$3.881 per pound. How much cheaper is Stop and Shop per pound?
- A.** \$.344  
B. \$.0344  
C. \$.00344  
D. \$1.344  
E. None of these

Find the difference between the two prices by subtracting.

*Blooms: Analyze*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #32*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

33. Lester Moy bought two new Michelin Tires for his car at \$99.55 per tire. He was also charged \$4.95 per tire for mounting, \$2.65 per tire for valves, and \$3.99 per tire for balancing. What was Lester's final bill?
- A. \$199.10  
B. \$208.10  
C. \$213.30  
**D.** \$222.28  
E. None of these

Multiply the price of the tire by 2 and add the other repair costs.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 3 Challenge*  
*Slater - Chapter 03 #33*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

34. Pumpkins at a local farm sell for \$.49 per pound. Jim Ring spent \$73.50. How many pounds of pumpkins were purchased?
- A. 100  
**B.** 150  
C. 510  
D. 110  
E. None of these

Divide the total spent by the price per pound.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #34*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

35. Jeff Jones has locked in an oil delivery price of \$1.95 per gallon. His tank holds 210 gallons. If Jeff has six fill-ups during the winter, what will be his total cost?
- A.** \$2,457  
 B. \$2,547  
 C. \$4,095  
 D. \$2,047.50  
 E. None of these

Multiply the number of gallons in the tank by the price per gallon by the number of fill-ups.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #35*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

36. North Shore Community College reimburses faculty members \$.298 cents per mile to go to a workshop. Professor Wales submitted her travel log for a total of 650.11 miles. What reimbursement can Professor Wales expect? (Round to the nearest cent.)
- A. \$193.70  
 B. \$193.71  
 C. \$193.72  
**D.** \$193.73  
 E. None of these

Multiply the number of miles traveled by the reimbursement rate per mile.

*Blooms: Apply*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #36*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

37. The Weather Channel reported that normal snowfall is 138.44 inches for Lexington County. This winter the following snowfall occurred:
- |                   |               |
|-------------------|---------------|
| December. . . . . | 18.46 inches  |
| January . . . . . | 15.438 inches |
| February. . . . . | 18.999 inches |
| March . . . . .   | 24.861 inches |

How much was the snowfall below normal?

- A. 22.682 inches  
 B. 23.682 inches  
 C. 26.682 inches  
 D. 25.682 inches  
**E.** None of these

Add the four months' snowfall totals and subtract that sum from the reported normal snowfall. The answer should be 60.682 below normal.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 3 Challenge*  
*Slater - Chapter 03 #37*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

38. Dave Adams bought season tickets for the Boston Celtics. The cost was \$1,300.11. The package included 30 home games. What is the average price of the tickets per game? Round to the nearest cent.
- A. \$43.30
  - B. \$43.34**
  - C. \$44.44
  - D. \$43.37
  - E. None of these

Divide the total price by the number of games and round to the hundredths place.

*Blooms: Apply*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #38*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

39. Printed pencils cost \$.33  $\frac{1}{3}$  each for an order of 18,000 pencils. On Monday Jim Co. placed an order for 18,000 pencils. What is the exact cost of the pencils for Jim Co.? Be sure to use the fractional equivalent in your calculation.
- A. \$5,940
  - B. \$5,994
  - C. \$5,999.40
  - D. \$6,000**
  - E. None of these

Convert one third to decimal and add that to the .33 cents before multiplying by the total number of pencils.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 3 Challenge*  
*Slater - Chapter 03 #39*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

40. If Jan sells 2,500 glow sticks on the Fourth of July at \$1.99 each, what will her total profit be if each stick cost her \$.88?
- A. \$2,757
  - B. \$3,000
  - C. \$2,775**
  - D. \$20,757
  - E. None of these

Find the difference between the cost and sale price and multiply that difference by the number of glow sticks sold.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #40*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

41. The average pay of employees is \$399.44 per week at a local True Value Hardware store. Jay Miller earns \$411.11 per week. How much is Jay's pay over the average?
- A. \$16.17
  - B. \$17.16
  - C. \$11.76
  - D. \$11.67**
  - E. None of these

Find the difference between the average pay rate of \$399.44 and \$411.11.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #41*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

42. Joyce went to Lowes to buy carpeting. She will need 88.4 sq. yards for downstairs, 15.1 sq. yards for the halls, and 177.18 sq. yards for the upstairs bedrooms. She chose a commercial carpet that costs \$18.11 per sq. yard. Joyce ordered foam padding at \$3.25 per sq. yard. The installers quoted Joyce a labor cost of \$4.25 per sq. yard for installation. What will the total job cost Joyce?
- A. \$8,871.21
  - B. \$8,781.21
  - C. \$7,188.21**
  - D. \$7,88.21
  - E. None of these

Add the three square foot areas needing carpet to get the total amount of square yards of carpet needed. Add the cost of the carpet to the cost of the padding to the cost of the installation per square yard. Multiply those two sums.

*Blooms: Analyze*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 3 Challenge*  
*Slater - Chapter 03 #42*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

43. Abby is touring China for four days. The car rental is \$38.15 per day plus 12 1/2 cents per mile. If Abby drives 380.5 miles, how much does she owe the rental company?
- A. \$152.60
  - B. \$200.16**
  - C. \$475.56
  - D. \$201.16
  - E. None of these

Multiply the daily rental rate by 4. Multiply the number of miles driven by the rate per mile. Add the two products.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #43*

*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

44. B. Brady signed a new basketball contract for the year for \$1,005,000. Assuming a schedule of 13 games, what are his earnings per game?
- A. \$73,707.69
  - B. \$63,707.69
  - C. \$79,307.69
  - D. \$77,307.69**
  - E. None of these

Divide the total contract price by the number of games.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #44*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

45. Mike Roland traveled 10,850 miles. His Ford truck averaged 16 miles per gallon. Assuming a gallon of gas cost \$2.10, what was Mike's gasoline cost for the trip?
- A. \$1,404.06
  - B. \$1,400.06
  - C. \$1,442.06
  - D. \$1,444.06
  - E. None of these**

Divide the total miles driven [10,850] by the number of miles per gallon [16]. Multiply that quotient by the price per gallon.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #45*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

46. Nancy Billows bought 150 shares of NBC Universal stock at \$22.885 per share. Her broker charged her \$22.05 for the brokerage commission. What is the average cost per share (include brokerage fee) to the nearest cent?
- A. \$23.03**
  - B. \$20.03
  - C. \$32.03
  - D. \$33.02
  - E. None of these

Divide the broker fee by the number of shares and add that quotient to the price per share.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #46*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

47. Last week Alice Roe earned wages of \$459.82. Payroll deductions included Social Security for \$33.19 and federal income tax of \$82.91. What is Alice's net pay?
- A. \$426.63
  - B. \$343.27
  - C. \$462.36
  - D.** \$343.72
  - E. None of these

Subtract the Social Security and federal income tax amounts from the wages of 459.82.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #47*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

48. Melvin Small typed 485 business letters. The cost of writing these letters was estimated to be \$3,455.25. What was the average cost of a letter to the nearest cent?
- A. \$7.13
  - B. \$7.11
  - C.** \$7.12
  - D. \$7.14
  - E. None of these

Divide the total cost by the number of letters typed and round to the nearest hundredth.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #48*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

49. Jill traveled to Canada and bought a new lamp for \$460. In U.S. dollars (to the nearest cent) this is equivalent to:
- A.** \$366.57
  - B. \$577.25
  - C. \$517.77
  - D. \$480.66
  - E. None of these

Use the appropriate conversion value to multiply the decimal values.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #49*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

50. Norm's electric bill for December 2013 was \$149.32. In 2014 the electric bill was \$194.31. Next year Norm expects the bill to be the 2013 amount plus \$25.00 more than the difference between 2013 and 2014. What is the new bill expected to be?
- A. \$44.99
  - B. \$194.31
  - C. \$219.31**
  - D. \$69.99
  - E. None of these

Add 25 to the difference of 194.31 and 149.32; this amount is 44.99. Add 44.99 to 149.32.

*Blooms: Analyze*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 3 Challenge*  
*Slater - Chapter 03 #50*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

51. Jim sells college textbooks. To date Jim has sold \$141,002 worth of textbooks. His sales quota is \$194,159. Tomorrow he expects to sell \$15,005 worth of textbooks to B College. His last stop will be Munroe College. What must he sell there to meet his quota?
- A. \$38,152**
  - B. \$38,251
  - C. \$53,157
  - D. \$53,175
  - E. None of these

$$194,159 - 141,002 - 15,005 = 38,152$$

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #51*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

52. Facebook's initial IPO was \$38 per share. Arianna purchased 616 shares. Assuming a cost of \$7.00 to purchase the 616 shares, what was Arianna's total cost?
- A. \$23,415**
  - B. \$22,514
  - C. \$23,408
  - D. \$20,000
  - E. None of these

$$616 \times \$38 = \$23,408 + \$7 = \$23,415.$$

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #52*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

53. On December 10, 1999, Apple Computers' stock was valued at \$615 billion; Microsoft's stock was valued in that quarter at \$271 billion. How much more value is Apple's stock at its peak over Microsoft?
- A. \$886 billion
  - B. \$400 billion
  - C. \$304 billion
  - D. \$344 billion**
  - E. None of these

$$\$615 - \$271 = \$344 \text{ billion.}$$

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #53*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

54. Best Buy sold 638 iPads during the month of May for a total, including tax, of \$296,963.48; what was the average cost to the consumer?
- A. \$465.46**
  - B. \$465.00
  - C. \$464.99
  - D. \$470.00
  - E. None of these

$$\$296,963.48 / 638 = \$465.46$$

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #54*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

55. In 2010, America's Healthcare cost \$14,009 per family. Assuming a growth rate of 8.5% a year with a forecasted cost of \$21,065 in 2015, how much more will a family pay in 2015?
- A. \$35,074
  - B. \$16,492
  - C. \$17,894
  - D. \$7,056**
  - E. None of these

$$\$21,065 - \$14,009 = \$7,056$$

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #55*

*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

56. During the great recession that began in January 2008, average weekly claims for unemployment were 420,000. The normal weekly average during full employment is 122,000. How many more people were filing for unemployment in January 2008?
- A.** 298,000  
 B. 542,000  
 C. 288,000  
 D. 400,000  
 E. None of these

$$420,000 - 122,000 = 298,000$$

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #56*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

57. Match the following terms with their definitions.
- |                        |  |          |
|------------------------|--|----------|
| 1. Mixed decimal.      | Two places to the right of decimal.                          | <b>8</b> |
| 2. Pure decimal.       | Number written with a decimal point.                         | <b>4</b> |
| 3. Rounding decimals.  | Decimal represents same value as the fraction.               | <b>7</b> |
| 4. Decimal.            | No whole number(s) to the left of the decimal point.         | <b>2</b> |
| 5. Decimal point.      | Position between units and tenths.                           | <b>5</b> |
| 6. Repeating decimal.  | Whole number and decimal.                                    | <b>1</b> |
| 7. Decimal equivalent. | Numbers repeat themselves to the right of the decimal point. | <b>6</b> |
| 8. Hundredth.          | Reducing decimal to indicated position.                      | <b>3</b> |

*Blooms: Remember*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #57*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

58. Convert to proper fraction or mixed number (do not reduce to lowest terms): **.8**

8/10

Feedback: 8 is in the tenths place; use the shortcut rule.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #58*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

59. Convert to proper fraction or mixed number (do not reduce to lowest terms):  
5.27

5 27/100

Feedback: 27 is in the hundredths place; use the shortcut rule and add the result to the whole number.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #59*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

60. Convert to proper fraction or mixed number (do not reduce to lowest terms): .851

851/1,000

Feedback: 851 is in the thousandths place; use the shortcut rule.

*Blooms: Apply*  
*Learning Objective: 03-01 (1) Explain the place values of whole numbers and decimals; round decimals*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #60*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

61. Convert fraction to decimal (or mixed decimals and round to nearest hundredth):  
5/7

.71

Feedback: 5 divided by 7 equals .714. When rounding to the hundredth, the 4 does not change the 1, so the answer is .71.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #61*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

62. Convert fraction to decimal (or mixed decimals and round to nearest hundredth):  
1/7

.14

Feedback: 1 divided by 7 equals .142. When rounding to the hundredth, the 2 does not change the 4, so the answer is .14.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #62*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

63. Convert fraction to decimal (or mixed decimal and round to nearest hundredth):  
 $13\frac{6}{7}$

13.86

Feedback: 6 divided by 7 equals .857. The 7 will cause the 5 to round up to 6 in the hundredths place, so the answer is 13.86.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #63*  
*Topic Area: LU 03-01: Rounding Decimals; Fraction and Decimal Conversions*

64. Subtract  $9.1581 - 2.85$

6.3081

Feedback: Remember to add two extra zeros so that 2.85 will have the same number of decimal places before subtracting.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #64*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

65. Multiply (round solution to nearest hundredth):  
 $9.158 \times 14.382$

131.71

Feedback: 9.158 multiplied by 14.382 equals 131.710. The zero cannot cause the 1 to be rounded up, so the answer is 131.71.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #65*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

66. Divide (round to nearest tenth):  
 $118,000 \div 3.95$

29,873.4

Feedback: 118,000 divided by 3.95 equals 29873.41. The 1 cannot cause the 4 to be rounded up, so the answer is 29873.4.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #66*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

67. Complete by shortcut method:  
 $43.81 \times 1,000$

43,810 (move decimal three places to the right)

Feedback: Because 1,000 has three zeros, you move the decimal three places to the right.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Blooms: Apply*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #67*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

68. Complete by shortcut method:  
 $11,896.413 \times 1,000$

11,896,413

Feedback: Because 1,000 has three zeros, you move the decimal three places to the right.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Blooms: Apply*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #68*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

69. Complete by shortcut method:  
 $3,069.44 \div 1,000$

3.06944

Feedback: Because 1,000 has three zeros, you move the decimal three places to the left.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Blooms: Apply*  
*Level of Difficulty: 1 Basic*  
*Slater - Chapter 03 #69*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

70. Jim Smith has two options in buying a typewriter. He could pay cash of \$225 or \$30 down and 15 monthly payments of \$19. If he pays cash, how much does he save?

\$90

Feedback: 15 multiplied by 19 equals \$285. Added to the \$30 down payment, this equals \$315, which is \$90 more than paying the \$225 in cash.

*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Blooms: Analyze*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #70*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

71. Rene Roller bought a new computer for \$1,499. What would the same computer cost in Canada? (Round to the nearest cent.) Use table in Handbook.

\$1,530.48 ( $\$1,499 \times 1.0210$ )

Feedback: Use the appropriate conversion value to multiply the decimal values.

*Blooms: Apply*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #71*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

72. Mel Doane is taking his office staff out to lunch. He has left on his credit card a spending limit of \$99.50. If the total meal includes two fruit cups, two onion soups, two veal, two roast beef, three coffees, and one soft drink, will Mel be able to use the card? (Disregard tip plus tax.) If so, how much more charging will Mel be allowed before hitting his credit limit?

Appetizers

Fruitcup	\$1.85
Onion Soup	2.95

Entrees

Roast Beef	\$11.95
Veal	10.45
Haddock	14.50

Beverage

Coffee	.95
Soft Drinks	1.50

\$40.75

Feedback:  $99.50 - 1.85 - 1.85 - 2.95 - 2.95 - 11.95 - 11.95 - 10.45 - 10.45 - .95 - .95 - .95 - 1.50$  equals 40.75. He has \$40.75 left to charge.

*Blooms: Analyze*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #72*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*

73. To grow grass in Mel Smith's yard, a landscaper estimates that he will need 55 pounds of grass seed. Each pound will cost Mel \$1.83. The landscaper will also charge Mel six hours of labor at \$12.50 per hour. If Mel pays early, he will be entitled to a cash discount of \$3.50. Assuming Mel takes advantage of the discount, how much does he pay the landscaper?

\$172.15

Feedback: Multiply the 55 pounds of seed by the price of 1.83. Multiply the six hours by the rate of 12.50 and add these two products together to get 175.65. Subtract the \$3.50 discount from the total to get \$172.15

*Blooms: Analyze*  
*Learning Objective: 03-01 (2) Convert decimal fractions to decimals; proper fractions to decimals; mixed numbers to decimals; and pure and mixed decimals to decimal fractions*  
*Level of Difficulty: 2 Intermediate*  
*Slater - Chapter 03 #73*  
*Topic Area: LU 03-02: Adding, Subtracting, Multiplying, and Dividing Decimals*