

**<4> Dividing Fractions**

Find each quotient. See Example 5.

59.  $\frac{3}{4} \div \frac{1}{4}$

60.  $\frac{2}{3} \div \frac{1}{2}$

61.  $\frac{1}{3} \div 5$

62.  $\frac{3}{5} \div 3$

63.  $5 \div \frac{5}{4}$

64.  $8 \div \frac{2}{3}$

65.  $\frac{6}{10} \div \frac{3}{4}$

66.  $\frac{2}{3} \div \frac{10}{21}$

67.  $\frac{3}{16} \div \frac{5}{2}$

68.  $\frac{1}{8} \div \frac{5}{16}$

**<5> Adding and Subtracting Fractions**

Find each sum or difference.

See Examples 6 and 7.

See Strategy for Finding the LCD box on page 19.

69.  $\frac{1}{4} + \frac{1}{4}$

70.  $\frac{1}{10} + \frac{1}{10}$

71.  $\frac{5}{12} - \frac{1}{12}$

72.  $\frac{17}{14} - \frac{5}{14}$

73.  $\frac{1}{2} - \frac{1}{4}$

74.  $\frac{1}{3} + \frac{1}{6}$

75.  $\frac{1}{3} + \frac{1}{4}$

76.  $\frac{1}{2} + \frac{3}{5}$

77.  $\frac{3}{4} - \frac{2}{3}$

78.  $\frac{4}{5} - \frac{3}{4}$

79.  $\frac{1}{6} + \frac{5}{8}$

80.  $\frac{3}{4} + \frac{1}{6}$

81.  $\frac{5}{24} - \frac{1}{18}$

82.  $\frac{3}{16} - \frac{1}{20}$

83.  $3\frac{5}{6} + \frac{5}{16}$

84.  $5\frac{3}{8} - \frac{15}{16}$

**<6> Fractions, Decimals, and Percents**

Convert each given fraction, decimal, or percent into its other two forms. See Example 8.

85.  $\frac{3}{5}$

86.  $\frac{19}{20}$

87. 9%

88. 60%

89. 0.08

90. 0.4

91.  $\frac{3}{4}$

92.  $\frac{5}{8}$

93. 2%

94. 120%

95. 0.01

96. 0.005

Perform the indicated operations.

97.  $\frac{3}{8} \div \frac{1}{8}$

98.  $\frac{7}{8} \div \frac{3}{14}$

99.  $\frac{3}{4} \cdot \frac{28}{21}$

100.  $\frac{5}{16} \cdot \frac{3}{10}$

101.  $\frac{7}{12} + \frac{5}{32}$

102.  $\frac{2}{15} + \frac{8}{21}$

103.  $\frac{5}{24} - \frac{1}{15}$

104.  $\frac{9}{16} - \frac{1}{12}$

105.  $3\frac{1}{8} + \frac{15}{16}$

106.  $5\frac{1}{4} - \frac{9}{16}$

107.  $7\frac{2}{3} \cdot 2\frac{1}{4}$

108.  $6\frac{1}{2} \div \frac{7}{2}$

109.  $\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$

110.  $\frac{1}{2} + \frac{1}{3} - \frac{1}{6}$

111.  $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

112.  $\frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3}$

Fill in the blank so that each equation is correct.

113.  $\frac{1}{4} + \frac{\quad}{\quad} = \frac{5}{8}$

114.  $\frac{1}{3} + \frac{\quad}{\quad} = \frac{4}{9}$

115.  $\frac{5}{16} - \frac{\quad}{\quad} = \frac{1}{8}$

116.  $\frac{3}{5} - \frac{\quad}{\quad} = \frac{1}{10}$

117.  $\frac{4}{9} \cdot \frac{\quad}{\quad} = \frac{8}{27}$

118.  $\frac{3}{8} \cdot \frac{\quad}{\quad} = \frac{3}{4}$

119.  $\frac{2}{3} \div \frac{\quad}{\quad} = \frac{4}{3}$

120.  $\frac{1}{15} \div \frac{\quad}{\quad} = \frac{1}{5}$