

R.2 Exercises

FOR
EXTRA
HELP

Go to **MyMathLab** for worked-out, step-by-step solutions to exercises enclosed in a square  and video solutions to  exercises.

CONCEPT CHECK Provide the correct response.

- For the decimal number 367.9412, name the digit that has each place value.
 - tens
 - tenths
 - thousandths
 - ones or units
 - hundredths
- For the decimal number 46.249, round to the place value indicated.
 - hundredths
 - tenths
 - ones or units
 - tens
- Round each decimal to the nearest thousandth.
 - $0.\bar{8}$
 - $0.\bar{5}$
 - 0.9762
 - 0.8642
- Find each product or quotient.
 - 25.4×10
 - 25.4×100
 - $25.4 \div 100$
 - $25.4 \div 1000$

Write each decimal as a fraction. (Do not write in lowest terms.) *See Example 1.*

- 0.4
- 0.6
- 0.64
- 0.82
- 0.138
- 0.104
- 0.043
- 0.087
- 3.805
- 5.166

Add or subtract as indicated. *See Example 2.*

- $25.32 + 109.2 + 8.574$
- $90.527 + 32.43 + 589.8$
- $28.73 - 3.12$
- $46.88 - 13.45$
- $43.5 - 28.17$
- $345.1 - 56.31$
- $3.87 + 15 + 2.9$
- $8.2 + 1.09 + 12$
- $32.56 + 47.356 + 1.8$
- $75.2 + 123.96 + 3.897$
- $18 - 2.789$
- $29 - 8.582$

Multiply or divide as indicated. *See Examples 3–5.*

- 12.8×9.1
- 34.04×0.56
- 0.2×0.03
- 0.07×0.004
- $78.65 \div 11$
- $73.36 \div 14$
- $19.967 \div 9.74$
- $44.4788 \div 5.27$
- 57.116×100
- 82.053×100
- 0.094×1000
- 0.025×1000
- $1.62 \div 10$
- $8.04 \div 10$
- $24.03 \div 100$
- $490.35 \div 100$

CONCEPT CHECK Complete the table of fraction, decimal, and percent equivalents.

	Fraction in Lowest Terms (or Whole Number)	Decimal	Percent
43.	$\frac{1}{100}$	0.01	
44.	$\frac{1}{50}$		2%
45.		0.05	5%
46.	$\frac{1}{10}$		
47.	$\frac{1}{8}$	0.125	
48.			20%
49.	$\frac{1}{4}$		
50.	$\frac{1}{3}$		
51.			50%
52.	$\frac{2}{3}$		$66\frac{2}{3}\%$, or $66.\bar{6}\%$
53.		0.75	
54.	1	1.0	

Write each fraction as a decimal. For repeating decimals, write the answer by first using bar notation and then rounding to the nearest thousandth. See Example 6.

55. $\frac{1}{8}$

56. $\frac{7}{8}$

57. $\frac{5}{4}$

58. $\frac{9}{5}$

59. $\frac{5}{9}$

60. $\frac{8}{9}$

61. $\frac{1}{6}$

62. $\frac{5}{6}$

Write each percent as a decimal. See Examples 7 and 9(a)–(c).

63. 54%

64. 39%

65. 7%

66. 4%

67. 90%

68. 10%

69. 117%

70. 189%

71. 2.4%

72. 3.1%

73. $6\frac{1}{4}\%$

74. $5\frac{1}{2}\%$

75. 0.8%

76. 0.5%

Write each decimal or whole number as a percent. See Examples 8 and 9(d)–(f).

77. 0.73

78. 0.83

79. 0.02

80. 0.08

81. 0.004

82. 0.005

83. 1.28

84. 2.35

85. 0.3

86. 0.6

87. 6

88. 10