

# Chapter 4 Review

(4.1) Determine the place value of the digit 4 in each decimal.

1. 23.45

2. 0.000345

Write each decimal in words.

3. 0.45

4. 0.00345

5. 109.23

6. 46.007

Write each decimal in standard form.

7. Two and fifteen hundredths

8. Five hundred three and one hundred two thousandths

Write the decimal as a fraction or a mixed number. Write your answer in simplest form.

9. 0.16

10. 12.023

11. 1.0045

12. 25.25

Write each fraction as a decimal.

13.  $\frac{9}{10}$

14.  $\frac{25}{100}$

15.  $\frac{45}{1000}$

16.  $\frac{261}{10}$

(4.2) Insert  $<$ ,  $>$ , or  $=$  to make a true statement.

17. 0.49 0.43

18. 0.973 0.9730

Write the decimals in order from smallest to largest.

19. 8.6, 8.09, 0.92

20. 0.09, 0.1, 0.091

Round each decimal to the given place value.

21. 0.623, nearest tenth

22. 0.9384, nearest hundredth

Round each money amount to the nearest cent.

23. \$0.259

24. \$12.461

Solve.

25. In a recent year, engaged couples in the United States spent an average of \$31,304.35 on their wedding. Round this number to the nearest whole dollar.

26. A certain kind of chocolate candy bar contains 10.75 teaspoons of sugar. Write this number as a mixed number.

(4.3) Add or subtract as indicated.

27.  $2.4 + 7.12$

28.  $3.9 - 1.2$

29.  $6.4 + 0.88$

30.  $19.02 + 6.98 + 0.007$

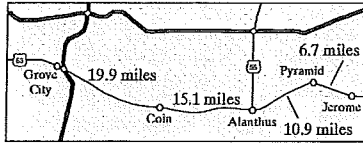
31.  $892.1 - 432.4$

32.  $100.342 - 0.064$

33. Subtract 34.98 from 100.

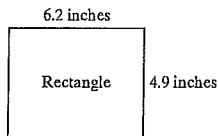
34. Subtract 10.02 from 200.

35. Find the total distance between Grove City and Jerome.

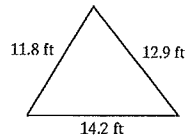


36. The price of oil was \$49.02 per barrel on October 23. It was \$51.46 on October 24. Find by how much the price of oil increased from the 23rd to the 24th.

37. Find the perimeter.



38. Find the perimeter.



(4.4) Multiply.

39. 
$$\begin{array}{r} 3.7 \\ \times 5 \\ \hline \end{array}$$

40. 
$$\begin{array}{r} 9.1 \\ \times 6 \\ \hline \end{array}$$

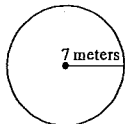
41.  $7.2 \times 10$

42.  $9.345 \times 1000$

43. 
$$\begin{array}{r} 4.02 \\ \times 2.3 \\ \hline \end{array}$$

44. 
$$\begin{array}{r} 39.02 \\ \times 87.3 \\ \hline \end{array}$$

Solve.

45. Find the exact circumference of the circle. Then use the approximation 3.14 for  $\pi$  and approximate the circumference.

46. A kilometer is approximately 0.625 mile. It is 102 kilometers from Hays to Colby. Write 102 kilometers in miles to the nearest tenth of a mile.

Write each number in standard notation.

47. Saturn is a distance of about 887 million miles from the Sun.

48. The tail of a comet can be over 600 thousand miles long.

(4.5) Divide. Round the quotient to the nearest thousandth if necessary.

49.  $3 \overline{)0.2631}$

50.  $20 \overline{)316.5}$

51.  $21 \div 0.3$

52.  $0.0063 \div 0.03$

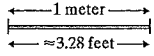
53.  $0.34\overline{)2.74}$

54.  $19.8\overline{)601.92}$

55.  $\frac{2.67}{100}$

56.  $\frac{93}{10}$

77. There are approximately 3.28 feet in 1 meter. Find how many meters are in 24 feet to the nearest tenth of a meter.



58. George Strait pays \$69.71 per month to pay back a loan of \$3136.95. In how many months will the loan be paid off?

Simplify each expression.

59.  $7.6 \times 1.9 + 2.5$

60.  $(2.3)^2 - 1.4$

61.  $\frac{7 + 0.74}{0.06}$

62.  $\frac{(1.5)^2 + 0.5}{0.05}$

63.  $0.9(6.5 - 5.6)$

64.  $0.0726 \div 10 \times 1000$

(4.6) Write each fraction as a decimal. Round to the nearest thousandth if necessary.

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

66.  $\frac{12}{13}$

67.  $2\frac{1}{3}$

68.  $\frac{13}{60}$

Insert  $<$ ,  $>$ , or  $=$  to make a true statement.

69.  $0.392$   $0.3920$

70.  $0.\bar{4}$   $\frac{4}{9}$

71.  $0.293$   $\frac{5}{17}$

72.  $\frac{4}{7}$   $0.625$

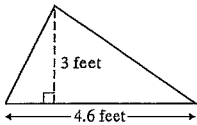
Write the numbers in order from smallest to largest.

73.  $0.839$ ,  $\frac{17}{20}$ ,  $0.837$

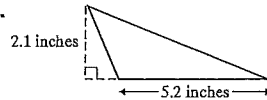
74.  $\frac{18}{11}$ ,  $1.63$ ,  $\frac{19}{12}$

Find each area.

△ 75.



△ 76.



### Mixed Review

77. Write 200.0032 in words.

78. Write sixteen thousand twenty-five and fourteen thousandths in standard form.

79. Write 0.00231 as a fraction or a mixed number.

80. Write the numbers  $\frac{6}{7}$ ,  $\frac{8}{9}$ ,  $0.75$  in order from smallest to largest.

Write each fraction as a decimal. Round to the nearest thousandth, if necessary.

81.  $\frac{7}{100}$

82.  $\frac{9}{80}$  (Do not round.)

83.  $\frac{8935}{175}$

Insert  $<$ ,  $>$ , or  $=$  to make a true statement.

84.  $402.00032$   $402.000032$

85.  $0.230505$   $0.23505$

86.  $\frac{6}{11}$   $0.55$

Round each decimal to the given place value.

87. 42.895, nearest hundredth

88. 16.34925, nearest thousandth

Round each money amount to the nearest dollar.

89. \$123.46

90. \$3645.52

Add or subtract as indicated.

91.  $4.9 - 3.2$

92.  $5.23 - 2.74$

93.  $200.49 + 16.82 + 103.002$

94.  $0.00236 + 100.45 + 48.29$

Multiply or divide as indicated. Round to the nearest thousandth, if necessary.

95. 
$$\begin{array}{r} 2.54 \\ \times 3.2 \\ \hline \end{array}$$

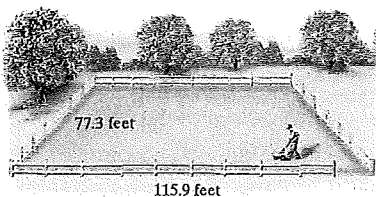
96. 
$$\begin{array}{r} 3.45 \\ \times 2.1 \\ \hline \end{array}$$

97.  $0.005 \overline{)24.5}$

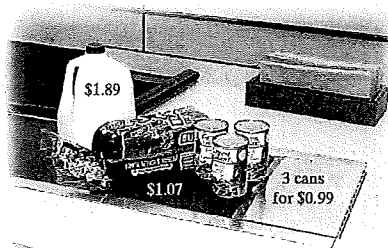
98.  $2.3 \overline{)54.98}$

Solve.

- △ 99. Tomaso is going to fertilize his lawn, a rectangle that measures 77.3 feet by 115.9 feet. Approximate the area of the lawn by rounding each measurement to the nearest ten feet.



100. Estimate the cost of the items to see whether the groceries can be purchased with a \$5 bill.



Simplify each expression.

101.  $\frac{(3.2)^2}{100}$

102.  $(2.6 + 1.4)(4.5 - 3.6)$