













Extra Practice Chapter 1

LESSON 1-1

Identify a possible pattern. Use your pattern to write the next three numbers.

- 13, 21, 29, 37, , , , ...
- 7, 8, 10, 13, , , , ...
- 165, 156, 147, 138, , , , ...
- 19, 33, 47, 61, , , , ...

Identify a possible pattern. Use your pattern to draw the next three figures.

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LESSON 1-2

Find each value.

- 5^3
- 7^3
- 5^5
- 6^5
- 4^1
- 8^2
- 12^2
- 100^3

Write each number using an exponent and the given base.

- 121, base 11
- 4,096, base 4
- 216, base 6
- Maria decided to donate \$1.00 to her favorite charity the first week of the month and to double the amount she donates each week. How much will she donate the sixth week?

LESSON 1-3

Simplify each expression.

- $9 \div 3 + 6 \cdot 5$
- $16 + (20 \div 5) - 3^2$
- $(6 - 3)^3 \div 9 + 7$
- $(4 \cdot 9) - (9 - 3)^2$
- $5 + 9 \cdot 2^2 \div 6$
- $6,842 - (5^3 \cdot 5 \cdot 10)$
- Charlotte bought 4 shirts for \$32 each and 3 pairs of pants for \$25 each. Simplify the expression $4 \cdot 32 + 3 \cdot 25$ to find out how much she paid for the clothes.

LESSON 1-4

Tell which property is represented.

- $1 \cdot (2 \cdot 3) = (1 \cdot 2) \cdot 3$
- $xy = yx$
- $(x + y) + z = x + (y + z)$

Simplify each expression. Justify each step.

- $5 + 6 + 19$
- $5 \cdot 10 \cdot 2$
- $3 \cdot (5 \cdot 9)$
- $(25 \cdot 8) \cdot 4$
- $30 + (121 + 39)$
- $125 \cdot (2 \cdot 3)$

Use the Distributive Property to find each product.

- $8 \cdot (2 + 10)$
- $3 \cdot (19 + 4)$
- $(10 - 2) \cdot 7$
- $15 \cdot (13 - 8)$
- $(47 + 88) \cdot 4$
- $5 \cdot (157 - 45)$

Extra Practice Chapter 1

LESSON 1-5

Evaluate each expression for the given value of the variable.

41. $v \div 5 + v$ for $v = 20$ 42. $3r - 20 \div r$ for $r = 5$ 43. $5x^2 + 3x$ for $x = 3$

Evaluate each expression for the given values of the variables.

44. $8m - 6n$ for $m = 4$ and $n = 2$ 45. $\frac{x}{y} - z$ for $x = 28$, $y = 7$, and $z = 4$

LESSON 1-6

Write each phrase as an algebraic expression.

46. add 7 to 8 times a number 47. 6 times the sum of 13 and a number
48. A music store sells packages of guitar strings. David bought s strings for \$24. Write an algebraic expression for the cost of one string.

LESSON 1-7

Determine whether the given value of each variable is a solution.

49. $a + 15 = 34$, when $a = 17$ 50. $t - 9 = 14$, when $t = 23$

LESSON 1-8

Solve each equation. Check your answers.

51. $r + 13 = 36$ 52. $52 = 24 + n$ 53. $6 + s = 10$
54. Towns A, B, and C are located along a road that runs east and west. Town A is 34 miles west of town C. Town B is 12 miles west of town C. Find the distance d between town A and town B.

LESSON 1-9

Solve each equation. Check your answers.

55. $z - 9 = 5$ 56. $v - 17 = 14$ 57. $24 = w - 6$
58. Reggie withdrew \$175 from his bank account to go shopping. After his withdrawal, there was \$234 left in Reggie's account. How much money m did Reggie have in his account before his withdrawal?

LESSON 1-10

Solve each equation. Check your answers.

59. $4y = 20$ 60. $21 = 3t$ 61. $72 = 9g$
62. The area of a rectangle is 54 in^2 . Its width is 6 in. What is its length ℓ ?

LESSON 1-11

Solve each equation. Check your answers.

63. $\frac{n}{4} = 6$ 64. $7 = \frac{t}{5}$ 65. $\frac{a}{8} = 12$
66. Sydney likes to run and ride a bike for exercise. Each day, she runs for one-third the time that she rides her bike. Yesterday, Sydney ran for 15 minutes. How many minutes m did she ride her bike?