Multi-Part Lesson 1-3: Powers of 10

Part D

PAGES 62-65

Write each product using an exponent.

1.
$$4 \times 4 \times 4 \times 4$$

2.
$$10 \times 10 \times 10$$

3.
$$14 \times 14$$

4.
$$3 \times 3 \times 3 \times 3$$

5.
$$2 \times 2 \times 2$$

6.
$$6 \times 6 \times 6 \times 6 \times 6$$

7.
$$8.2 \times 8.2 \times 8.2$$

8.
$$7 \times 7 \times 7 \times 7 \times 7 \times 7$$

9.
$$9.5 \times 9.5 \times 9.5$$

Write each power as a product of the same factor. Then find the value.

18. FOOD The number of Calories in a small banana can be written as 2^7 . What whole number does 2^7 represent?

Multi-Part Lesson 5-1: Write and Evaluate Expressions

PART E

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Find the value of each expression.

$$12+10-5-6$$

$$0 - 5 - 6$$

2)
$$2 \times 3 + 9 \times 2$$

5) $4^2 + 3^3$

$$8 + 12 \times 4 \div 8$$

4)
$$54 \div (8-5)$$

$$5)$$
 $4^2 + 3^3$

$$(11-7) \times 3-5$$

$$7)$$
 25 $-9+4$

9)
$$3 \times 4^3$$

$$10)$$
 11 + 4 × $(12 - 7)$

11)
$$6^2 - 7 \times 4$$

$$12 + 5^2 - 9$$

PART F

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Evaluate each expression if m = 2 and n = 4.

1.
$$m+m$$

2.
$$n - m$$

4.
$$3m + 5$$

5.
$$2n + 2m$$

8.
$$12 - m$$

$$9.5n \div m$$

11.
$$4n - 3$$

12.
$$n \div m + 8$$

Evaluate each expression if a = 3, b = 4, and c = 12.

13.
$$a + b$$

14.
$$c - a$$

15.
$$a + b + c$$

16.
$$b - a$$

17.
$$c-a \cdot b$$

18.
$$a + 2 \cdot b$$

19.
$$b+c+2$$

21.
$$25 + c \div b$$

22.
$$c \div a + 10$$

23.
$$2b - a$$

Name: Study Guide Period:
Write an algebraic expression to translate each written phrase or real-life scenario.
1. the sum of 4 and a number y
2. 6 less than a number x
3. the quotient of a number m and 16
4. the product of a number t and 9
5. I want to double my profits from last year.
6. The number of apples split evenly between 5 people.
7. Liz has 10 more cans of soda than Peter.
8. Five years less than Mary's age
9. Bowl three games and pay for \$2.00 shoe rental
10. Mei paid \$8.00 to enter the carnival area and then bought 50 game tickets.