# Lesson 1-1

# 1-1) Study Guide and Intervention

# Variables and Expressions

Write Mathematical Expressions In the algebraic expression,  $\ell w$ , the letters  $\ell$  and w are called variables. In algebra, a variable is used to represent unspecified numbers or values. Any letter can be used as a variable. The letters  $\ell$  and w are used above because they are the first letters of the words length and width. In the expression  $\ell w$ ,  $\ell$  and w are called factors, and the result is called the **product**.

#### Example 1 Write

Write an algebraic expression for each verbal expression.

- a. four more than a number n The words more than imply addition.
  - four more than a number n4 + n
  - The algebraic expression is 4 + n.
- b. the difference of a number squared and 8

The expression difference of implies subtraction. the difference of a number squared and 8  $n^2-8$ 

The algebraic expression is  $n^2 - 8$ .

#### Example 2

Evaluate each expression.

a. 3<sup>4</sup>
3<sup>4</sup> = 3 · 3 · 3 · 3 · Use 3 as a factor 4 times.

3<sup>4</sup> = 3 · 3 · 3 · 3 Use 3 as a factor 4 times. = 81 Multiply. b. five cubed

Cubed means raised to the third power.  $5^3 = 5 \cdot 5 \cdot 5$  Use 5 as a factor 3 times. = 125 Multiply.

#### Exercises

Write an algebraic expression for each verbal expression.

- 1, a number decreased by 8
- 5. a number divided by 6

3. a number squared

- 7. the sum of 9 and a number
- 9. twice the sum of 15 and a number

- 2. a number divided by 8
- 4. four times a number
- 6, a number multiplied by 37
- 8. 3 less than 5 times a number
- 10, one-half the square of b
- 11. 7 more than the product of 6 and a number
- 12. 30 increased by 3 times the square of a number

Evaluate each expression.

13, 52

14. 3<sup>3</sup>

 $15.10^4$ 

 $16.12^2$ 

 $17.8^{3}$ 

18, 2<sup>8</sup>

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**Mike Jess** 

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