

1-1

Study Guide and Intervention

Variables and Expressions

Write Mathematical Expressions In the algebraic expression, lw , the letters l 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 l and w are used above because they are the first letters of the words *length* and *width*. In the expression lw , l and w are called **factors**, and the result is called the **product**.

Example 1

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 n

$$4 + n$$

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. 3^4

$$3^4 = 3 \cdot 3 \cdot 3 \cdot 3 \quad \text{Use 3 as a factor 4 times.}$$

$$= 81 \quad \text{Multiply.}$$

- b. five cubed

$$5^3 = 5 \cdot 5 \cdot 5 \quad \text{Cubed means raised to the third power.}$$

$$= 125 \quad \text{Use 5 as a factor 3 times.}$$

Multiply.

Exercises

Write an algebraic expression for each verbal expression.

- | | |
|-------------------------------------|---------------------------------|
| 1. a number decreased by 8 | 2. a number divided by 8 |
| 3. a number squared | 4. four times a number |
| 5. a number divided by 6 | 6. a number multiplied by 37 |
| 7. the sum of 9 and a number | 8. 3 less than 5 times a number |
| 9. twice the sum of 15 and 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. 5^2

14. 3^3

15. 10^4

16. 12^2

17. 8^3

18. 2^8

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Siddappa N.Byrareddy



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