NAME _____ DATE _____

**Module 2** Writing and Simplifying Algebraic Expressions
**Lesson 2** Translating Word Phrases into Algebraic Expressions


**Write an algebraic expression for the following.**

**1.** fifteen more than some number

**2.** 7 added to $m$

**3.** two less than $y$

**4.** the difference 12 minus $N$

**5.** some number doubled

**6.** the product of –9 and $g$

**7.** a number $t$ divided by –26

**8.** the quotient 58 divided by a number

**9.** 5 more than the square of $b$

**10.** $y$ cubed decreased by 11

**11.** 7 times 3 plus 5

**12.** 7 times the sum of 3 and 5

**13.** –7 times a number $v$ increased by thirteen

**14.** 9 times the quantity 5 plus y

**15.** two-thirds of the square of a number

**16.** three times the cube of a number divided by –4

**17.** 8 less than the quotient $r$ divided by 5

**18.** 6 added to the quotient 7 divided by a number

**19.** 32 added to 3 times the square of a number

**20.** 5 more than the product of 7 and the cube of $D$

## Journal

1. Why does it matter which of two different numbers is written first in a subtraction expression?
2. In two different ways, express $n + 4$ in words.
3. Which operations can be performed with any two numbers, getting the same result, regardless of the order?
4. List some words that may indicate that grouping symbols are needed in an expression.
5. Compare and contrast the term "square" with the term "cube" as used in writing algebraic expressions.

## Cumulative Review

**List all the sets of numbers that contain each given number.**

**1.** –15 _____

**2.** $\pi$ _____

**3.** –4.29574 _____

**4.** 0 _____

**5.** 5,497 _____

**Simplify each expression.**

**6.** $5^3 - 3^2$ _____

**7.** $7 + 3(6 - 2)$ _____

**8.** $15 \div 3 + 10(-8)$ _____

**9.** $|12 - 57| + \frac{2}{3}\left(7 + \sqrt{4}\right)$ _____

**10.** $\left(\frac{2}{5}\right)\left(\frac{15}{8}\right) \div \left(\frac{3}{7}\right)\left(\frac{14}{9}\right)$ _____