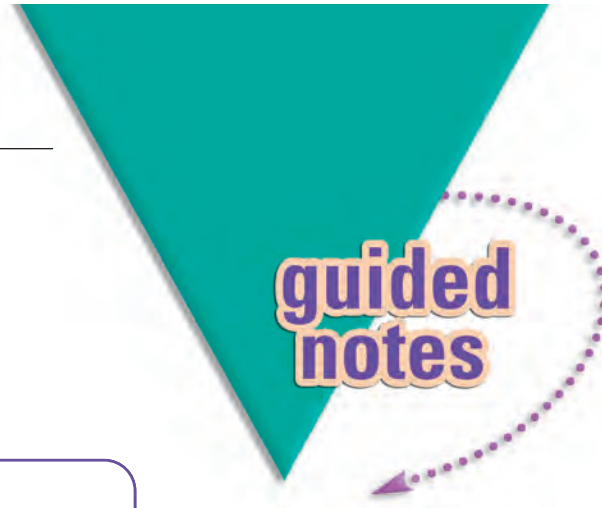NAME

Module 4   Solving Problems Using Linear
Equations of One Variable
Lesson 1   Translating Sentences into
Algebraic Equations

Lesson Objective

• Write sentences as algebraic equations.

Fill in the chart with the commonly used word phrases for each operation as discussed in the lesson.

Addition	Subtraction	Multiplication	Division	Equals
the sum of	minus	times	the quotient of	equals
increased by	subtracted from	product	divided by	is equal to
plus	decreased by	multiplied by		is equivalent to
more than	the difference of	double		is the same as
added to	less than	triple		is identical to
the total of				is

An equation is a mathmatical sentence that uses an equal sign to state that two expressions are equal.

1 ▶ Translate into an equation: The product of six and a number is the same as twelve. $6r = 12$

2 ▶ Translate into an equation: Twice a number increased by 1 equals 5.

$2y + 1 = 5$

3 ▶ Translate into an equation: Four less than six times a number is equal to seven.

$6s - 4 = 7$

4 ▶ Translate into an equation: Three times the sum of a number and five is the same as twenty-seven. $3(x + 5) = 27$

5 ▶ Translate into an equation: The product of a number *n* and the sum of the

number *n* and six is the same as the number *n* squared. $n(n + 6) = n^2$

6 ▶ Translate into an equation: Fred had *d* dimes that totaled $7.50.

$0.10d = \$7.50$

7 ▶ Translate into an equation: Mrs. Beetle is three times as old as her daughter.

The sum of their ages is forty-eight years. $A + 3A = 48$