



Name \_\_\_\_\_ Date \_\_\_\_\_

# Writing Expressions and Equations

(Pages 27–29)

There are many words and phrases that suggest arithmetic operations. Any variable can be used to represent a number.

<b>Translating Words into Expressions</b>	<b>Verbal Phrase</b>		<b>Algebraic Expression</b>	
	five less than a number		$a - 5$	
	a number increased by 12		$b + 12$	
	twice a number decreased by 3		$2d - 3$	
	the quotient of a number and 4		$\frac{g}{4}$	
	<b>Addition</b>	<b>Subtraction</b>	<b>Multiplication</b>	<b>Division</b>
<b>Common Phrases that Indicate the Four Operations</b>	plus, sum, more than, increased by, total, in all	minus, difference, less than, subtract, decreased by	times, product, multiplied, each, of	divided, quotient, separated
<b>Translating Verbal Sentences into Equations</b>	<b>Verbal Sentence</b>		<b>Algebraic Equation</b>	
	24 is 6 more than a number.		$24 = h + 6$	
	Five times a number is 60.		$5k = 60$	

## EXAMPLES

**A** Write *16 plus 7* as an expression.

*16 plus 7*

$16 + 7$  Plus indicates addition, so write an addition expression.

**B** Write *a minus b* as an expression.

*a minus b*

$a - b$  Minus indicates subtraction, so write a subtraction expression.

## Try These Together

**Write each phrase as an algebraic expression or equation.**

1. 5 more than a number

2. half of the total

*HINT: Use the chart of common phrases above to help you write each expression or equation.*

## PRACTICE

**Write each phrase as an algebraic expression or equation.**

3.  $g$  less than 14 is 8

4. the product of 6 and  $y$  is 42

5. 13 less  $a$  is 5

6. 3 times  $h$  is 12

7. 17 decreased by  $x$  is 15

8. 5 more than Eric's score

9. **Money Matters** Darcey gets 3 times as much allowance every month as her younger sister Devin. Suppose Darcey gets \$18.00 allowance every month. Write an equation to find out how much allowance Devin gets every month.



10. **Standardized Test Practice** Which expression shows how to find the price per gallon of gasoline if 15 gallons costs \$19.65?

**A**  $15 = \$19.65p$

**B**  $\$19.65 = 15p$

**C**  $\$19.65 - p = 15$

**D**  $\$19.65 + 15 = p$

Answers: 1.  $n + 5$  2.  $\frac{1}{2}t$  3.  $14 - g = 8$  4.  $6y = 42$  5.  $13 - a = 5$  6.  $3h = 12$  7.  $17 - x = 15$  8.  $e + 5 = 18$  9.  $3d = 18$  10. B