3-1   Study Guide and Intervention

Writing Expressions and Equations

The table below shows phrases written as mathematical expressions.

Phrases	Expression	Phrases	Expression
9 more than a number the sum of 9 and a number a number plus 9 a number increased by 9 the total of x and 9	$x + 9$	4 subtracted from a number a number minus 4 4 less than a number a number decreased by 4 the difference of h and 4	$h - 4$

Phrases	Expression	Phrases	Expression
6 multiplied by g 6 times a number the product of g and 6	$6g$	a number divided by 5 the quotient of t and 5 divide a number by 5	$\dfrac{t}{5}$

The table below shows sentences written as an equation.

Sentences	Equation
Sixty less than three times the amount is $59. Three times the amount less 60 is equal to 59. 59 is equal to 60 subtracted from three times a number. A number times three minus 60 equals 59.	$3n - 60 = 59$

Exercises

Write each phrase as an algebraic expression.

1. 7 less than m

2. the quotient of 3 and y

3. the total of 5 and c

4. the difference of 6 and r

5. n divided by 2

6. the product of k and 9

Write each sentence as an algebraic equation.

7. A number increased by 7 is 11.

8. The price decreased by $4 is $29.

9. Twice as many points as Bob would be 18 points.

10. After dividing the money 5 ways, each person got $67.

11. Three more than 8 times as many trees is 75 trees.

12. Seven less than a number is 15.