

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	$\frac{t}{5}$

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.

- 7 less than m $m - 7$
- the quotient of 3 and y $\frac{3}{y}$
- the total of 5 and c $5 + c$
- the difference of 6 and r $6 - r$
- n divided by 2 $\frac{n}{2}$
- the product of k and 9 $9k$

Write each sentence as an algebraic equation.

- A number increased by 7 is 11. $n + 7 = 11$
- The price decreased by \$4 is \$29. $p - 4 = 29$
- Twice as many points as Bob would be 18 points. $2b = 18$
- After dividing the money 5 ways, each person got \$67. $\frac{m}{5} = 67$
- Three more than 8 times as many trees is 75 trees. $8t + 3 = 75$
- Seven less than a number is 15. $n - 7 = 15$