

1-7**Study Guide and Intervention**

7AF1.1, 7AF1.4

Writing Equations

The table shows several verbal phrases for each algebraic expression.

Phrases	Expression	Phrases	Expression
8 more than a number the sum of 8 and a number x plus 8 x increased by 8	$x + 8$	the difference of r and 6 6 subtracted from a number 6 less than a number r minus 6	$r - 6$
Phrases	Expression	Phrases	Expression
4 multiplied by n 4 times a number the product of 4 and n	$4n$	a number divided by 3 the quotient of z and 3 the ratio of z and 3	$\frac{z}{3}$

The table shows several verbal sentences that represent the same equation.

Sentences	Equation
9 less than a number is equal to 45. The difference of a number and 9 is 45. A number decreased by 9 is 45. 45 is equal to a number minus 9.	$n - 9 = 45$

Exercises

Write each verbal phrase as an algebraic expression.

- the sum of 8 and t
- the quotient of g and 15
- the product of 5 and b
- p increased by 10
- 14 less than f
- the difference of 32 and x

Write each verbal sentence as an algebraic equation.

- 5 more than a number is 6.
- The product of 7 and b is equal to 63.
- The sum of r and 45 is 79.
- The quotient of x and 7 is equal to 13.
- The original price decreased by \$5 is \$34.
- 5 shirts at \$ d each is \$105.65.