

Algebra 1

Writing and Evaluating Expressions and Equations



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Congratulations!

You are about to start the fun part of math



Variable

A letter used to represent one or more numbers.

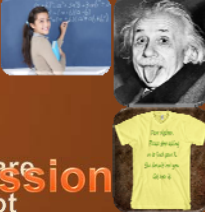
Algebraic Expression


An Expression that includes at least one variable.

“Algebraic symbols are used when you do not know what you are talking about.”

Algebraic Equation

A math sentence formed by placing the symbol “=” between 2 expressions



Overview 

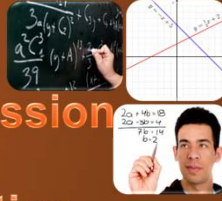
Variable
 a, b, c, z, h, x, \dots

Algebraic Expression
 $3x + 6$

Algebraic Equation
 $5x = 35$

You take some friends to the movies. Tickets are \$5 each, and you spend \$35. How many friends ("x") did you take to the movies?

Writing and Evaluating Expressions



Write an expression for the product of 9 and x

$9(x) = 36$


Evaluate the expression for $x = 4$

Write a math expression for this phrase: "four times the sum of 3 and a number z."

$4 * (3 + z)$ $4(3 + 6) = 36$

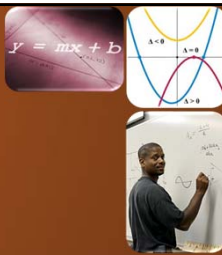
Evaluate the expression for $z = 6$

You Try





Write an expression for this situation:
 Each person's share if p people divide 16 slices of pizza equally. Evaluate the expression for $p = 4$

You Try




Write an expression for this situation: Each person's share if p people divide 16 slices of pizza equally

$y = mx + b$  



$16/p$


Evaluate the expression for $p = 4$

$16/4 = 4$

You Try! 

Write the sentence as an equation:
"240 is equal to the product of 16 and k"



$y = mx + b$  

You Try! 

"x" or "*" = multiply

$240 = 16 * k$

Write the sentence as an equation:
"240 is equal to the product of 16 and k"

$y = mx + b$  

You Try! 