

# Creating Algebraic Expressions



Level 1 - Create algebraic expressions from the word expression

Algebra often takes everyday words and turns them into math language.

An algebraic expression is a math phrase that can include numbers, variables, and operations (like +, -, ×, ÷).

When you see a word problem, your job is to “translate” it into algebra. Think of yourself as a language translator: turning English into “math.”

Common Translations			
Sum of	addition	Difference	subtraction
Product	multiplication	Quotient	division
Square	multiplied by itself ( $x^2$ )	Cube	raised to the power of 3: ( $x^3$ )
Square root	$\sqrt{x}$	Cubed Root	$\sqrt[3]{x}$
A Number	a variable	Reciprocal of x	1 over x: $\left(\frac{1}{x}\right)$

## Remember:

- Always choose a letter to stand for “a number.” Common choices are x, n, or y.
- Pay attention to keywords: sum (add), difference (subtract), product (multiply), quotient (divide).
- Parentheses (brackets) are your best friend when the words group terms together (like “a number plus 6” all being divided).