Vocabulary: Simplifying Algebraic Expressions 1

Vocabulary

aizmos

- <u>Additive Identity</u> The sum of any number and zero is that number.
- <u>Algebraic expression</u> an expression that contains numbers, variables, and operators.
- <u>Commutative</u> when values connected by an operator give the same result, regardless of the order of the values.
 - Multiplication is commutative because a b and b a are equivalent expressions.
- <u>Distributive</u> when an operator performed on two separate values gives the same result as the operator performed on the values combined.
 - Multiplication is distributive because a(b + c) and ab + ac are equivalent expressions.
- <u>Multiplicative Identity</u> The product of any number and one is that number.
- <u>Multiplication Property of Negative One</u> The product of any number and negative one is the opposite of that number.
- <u>Multiplication Property of Zero</u> The product of any number and zero is zero.
- <u>Simplest Form</u> The form of an expression that contains no parentheses and no terms that can be combined.
- Term A quantity in an expression. Terms are separated by addition or subtraction.
 - Terms can be numbers, the product of a number and a variable, or the product of two or more variables.
 - In the expression $3a^2 + 4ab + 5b + 6$, the terms are $3a^2$, 4ab, 5b, and 6.

