

# ***Axioms and Properties***

*Using Chapter 2, locate and define the following Axioms and Properties. Be able to identify and explain each for the next day in class.*

## Identity Axioms:

- Identity Axiom of Addition
- Axiom of Opposites
- Property of the Opposite of a Sum

## Distributive Property

- Distributive Axiom of Multiplication

## Definition of Division

- Axiom of Reciprocals
- Property of the Reciprocal of a Product

## Rules for Multiplication

- Identity Axiom of Multiplication
- Multiplicative Property of Zero
- Multiplicative Property of -1
- Property of Opposites in Products

## Properties of Equality

- Reflexive Property
- Symmetric Property
- Transitive Property

## Axiom of Closure

- Cummutative Axiom
- Associative Axiom