

# Read & Write Algebraic Equations

In the previous tutorial, I explored reading, writing and evaluating algebraic expressions.

Next, I'll compare an algebraic expression with an algebraic equation.

$$x + 2$$

Algebraic Expression

$$x + 2 = 5$$

Algebraic Equation

- How would I explain the parts that make up the algebraic expression and the equation?
- How would I read the algebraic expression compared to the equation?
- How would I describe an algebraic expression compared to an equation?

An equation can be defined as...

*A mathematical statement that two expressions or quantities are equal.*

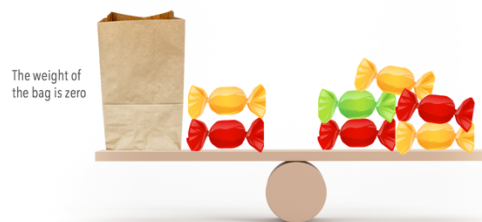
- How would I explain this definition using the equation  $x + 2 = 5$  ?

$$x + 2 = 5$$

- How would I explain the purpose of the equal sign in an equation?

An equation can also be compared to a balanced scale.

- How does the balanced scale model the equation  $x + 2 = 5$ ?



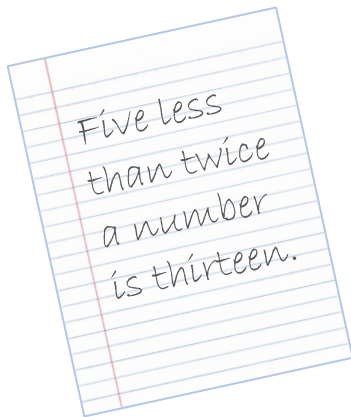
- How could the balanced scale help me determine how many candies are in the bag?



- How would I describe the individual terms that make up this equation?

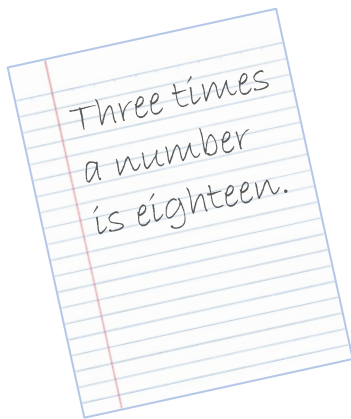
$$2x - 5 = 13$$

An equation can be described using a sentence.



$$2x - 5 = 13$$

- How would I explain/identify parts of the equation with the words used in the sentence?
  
- How would I explain and demonstrate writing the equation described in the sentence below?



## Read & Write Algebraic Equations

Which statements do I feel confident explaining and demonstrating?

Which statements do I not feel confident explaining and demonstrating?

- ✓ I can compare an algebraic expression to an equation
- ✓ I can identify terms in an algebraic equation
- ✓ I can use the words... numerical coefficient, variable and constant to describe terms in an algebraic equation
- ✓ I can read an algebraic equation by describing the math being performed to the variable
- ✓ I can write a sentence to describe an algebraic equation