Vocabulary: Solving Equations by Graphing Each Side



**Vocabulary**

* Equation – a mathematical sentence that states that two expressions are equal.
	+ The two equal expressions in an equation are written with an *equals sign* (=) between them.
	+ For example, the equation 3*x* + 4 = 7 shows that 3*x* + 4 and 7 are equal.
* Expression – a combination of one or more numbers, one or more variables, and one or more arithmetic operations.
* For example, *x* – 2, 8*m*, *r* ÷ 6, 7, 3*x* + 4, and (2 + ()2 – 0.3) are all expressions.
* Identity – an equation that is true for all values of the variable.
* For example, 2*x* = *x* + *x* is true no matter what value is substituted for *x*.
* Solution – a value or values that make an equation or inequality true.
* For example, 1 is the solution of the equation 3*x* + 4 = 7 because it makes the equation true: 3(1) + 4 = 7.