## 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, $x-2,8 m, r \div 6,7,3 x+4$, and $\left(2+\left(\frac{5}{11}\right)^{2}-0.3\right)$ 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: $3(1)+4=7$.

