Steps to Solve an Equation

- 1. Draw a line through the equal sign to divide the equation into two parts.
- 2. Identify the variable. If the variable is on both sides of the equation, you need to first move it to just one side.

Ex. 4y + 16 = 52 - 2y+2y +2y 6y + 16 = 52

- 3. Ask yourself: "What is being done to the variable?" Variable is "y." The "y" is being multiplied by 6 and added 16
- 4. Solve any addition or subtraction on the side of the variable first. Then solve any multiplication or division.

Ex.
$$6y + 16 = 52$$

-16 -16
 $6y = 36$

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(Remember that whatever you do on one side of the equation, you must do on the other side as well.)

$$\frac{6y}{6} = \frac{36}{6}$$
$$y = 6$$

5. We are done when the variable is alone