**Solving One-Step Equations Notes**

* An \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a mathematical sentence with an \_\_\_\_\_\_\_\_\_\_ sign.
* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of an equation is a value for a \_\_\_\_\_\_\_\_\_\_\_\_ that makes an equation \_\_\_\_\_\_\_\_\_\_.
* You ***substitute a number for a variable*** to determine whether the number is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the equation.

**DIRECTIONS**: Is the given number a solution for the equation? Show how you arrived at your answer.

1. X + 170 = 200, for x = 30 2.) 3 = 12 - a, for a = 6

3.) 8 + t = 2t, for t = 3

**IMPORTANT RULES FOR SOLVING EQUATIONS**

1. The goal is to get the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ alone on \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ of the equation.
2. You ***MUST*** use \_\_\_\_\_\_\_\_\_\_ operations to isolate the variable on one side of the equation.
3. Whatever you do to one side of the equation, you must do to the \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ of the equation. This keeps the equation \_\_\_\_\_\_\_\_\_\_\_\_.

**DIRECTIONS:** Solve for the variable. Check your answers. Show all your work.

1. x + 4 = 6 2.) y - 5 = 12

3.) 11 = t + 2 4.) 21 = r - 5

5.) 2p = 18 6.) 20 = 5c

7.) $\frac{z}{14}=2$ 8.) $5=\frac{d}{8}$