**One Step Equations Guided Notes/Examples**

Directions: Read through the notes on how to solve a one step equation. Fill in the blanks along the way!

When solving a one-step equation, we must **isolate the variable** on one side of the equation. For this purpose, we will **perform the inverse** of whatever operation is being done to the variable on **both sides** of the equation.

**Vocabulary:**

**Equation:** a mathematical sentence that contains a \_\_\_\_\_\_\_ sign.

**Inverse Operations:** A mathematical process that requires you to do the \_\_\_\_\_\_\_\_\_\_\_ operation on both sides of the = equal = sign in order to solve for the missing variable.

Would you ever put deodorant under just one arm? **NO!!!** Would you ever put nail polish on just one hand? **NO!!!**

Would you ever wear just one sock? **NO!!!** So you must apply the inverse operation to **BOTH SIDES** of the equation!!!!

What is the inverse operation of…… + \_\_\_\_\_\_\_\_\_ - \_\_\_\_\_\_\_\_\_\_ · \_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_

**How to solve a one step equation:**

**1- To isolate the variable, circle the number &**

**operation closest to the variable.**

**2-Do the inverse operation and balance the equation**

**3- Cross out what cancels out which are called zero pairs (COCO).**

**4- Bring down variable, equal sign, and solve.**

**5- Check (same lesson from last week)**



You should always check your work by substituting your answer back into the original equation.

Example 1: 42+51 = 93 y =42

Example 2: 180 – 33 = 147 x=180

You Try!

**Example 3 Example 4 Example 5 Example 6**

x – 12 = 34 49 + x = 310  4x = 216

Equations Practice

**Show ALL steps**, including the inverse operation on BOTH sides AND the “check.”

1. m + 25 = 39 2) y – 14 = 32 3) 8r = 56 4) 

**Check** **Check**  **Check** **Check**

5) m + 1.8 = 7.5 6) a – $3.05 = $9 7) 25t = 150 8) 

**Check** **Check**  **Check** **Check**

9) b + ½ = 6 10) i -  =  11)  12) 

**Check** **Check** **Check** **Check**

13) the sum of 15 and t 14) r decreased by 22 is 89 15) the product of a and 16) p split into

 is 329 12 is 132 groups of

 3 equals 6

**Check** **Check** **Check** **Check**