Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_

**3.5B Solving Two-Step Equations\_Classwork**

When you solve an equation your goal is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the variable. To do this you need to use inverse operations or “undo” all of the other operations in the equation.

***Review***

**SPECIAL ATTENTION!**

1. Before you solve the variable, simplify the expression using PEMDAS or distributive property
2. When you are dealing with only fraction, get rid of the denominator first.

(Ex. $\frac{m + 3}{4})$

To “undo” addition, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $x+7=10$

To “undo” subtraction, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $x-8=15$

To “undo” multiplication, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $4x=28$

To “undo” division, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $\frac{x}{3}=9$

*Solve each equation. Show your check.*

|  |  |
| --- | --- |
| 1. $ 2(x-3)=48$ **Check**
 | 1. $\frac{m + 3}{4}=-6$ **Check**
 |
| 1. $-(x-3)+13=48$ **Check**
 | 1. $\frac{-m + 3}{4}+2=-6$ **Check**
 |

**PRACTICE PROBLEM:**

|  |  |
| --- | --- |
| 1. $ -2(x-3)=18$ **Check**
 | 1. $\frac{m + 3}{-2}=-6$ **Check**
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