Solving Two Step Equations Notes

GOAL OF SOLVING EQUATIONS:

STEPS:

1) Add or subtract to isolate the variable term

2) Multiply of divide to solve for the variable

INVERSES REVIEW:

_____ and _____ are inverses

Example: ____ + ____ = 0

_____ and _____ are inverses

Example: ____ · ____ = 1

Try it!

Example 1:

$-2x + 10 = 22$

$-2x =$ ____

$x =$ ____

Check:

$-2x + 10 = 22$

$-2(\_\_) + 10 = 22$

$\_\_\_\_ + 10 = 22$

$\_\_\_\_ = 22$

Example 2:

$\frac{x}{5} - 9 = -3$

$\frac{x}{5} =$ ____

$x =$ ____

Check:

$\frac{x}{5} - 9 = -3$

$\frac{\_}{5} - 9 = -3$

$\_\_\_\_ - 9 = -3$

$\_\_\_\_ = -3$

Example 3:

$\frac{x}{3} + 10 = 12$

$\frac{x}{3} =$ ____

$x =$ ____

Check:

$\frac{x}{3} + 10 = 12$

$\frac{\_}{3} + 10 = 12$

$\_\_\_\_ + 10 = 12$

$\_\_\_\_ = 12$

Example 4:

$6x - 1 = 5$

$6x =$ ____

$x =$ ____

Check:

$6x - 1 = 5$

$6(\_\_) - 1 = 5$

$\_\_\_\_ - 1 = 5$

$\_\_\_\_ = 5$

Always remember to check your answers by substituting it in for x. Both sides of the equation should be equal