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