ONE STEP EQUATIONS

$$X + 8 = -3$$
 $-8 = -8$
 $X + 0 = -11$
 $X = -11$

To undo addition use subtraction

$$-3x = 12$$
 -3
 -3
 -3
 -3
 -3
 -3

To undo multiplication use division

To undo subtraction use addition

$$\frac{-3}{1}$$
 $\frac{1}{-3}$ $\frac{3}{1}$ $\frac{1}{-3}$ $\frac{3}{1}$ \frac

To undo division use multiplication

$$\frac{3}{2}$$
. $\frac{3}{3}$ X = 6 . $\frac{3}{2}$ $\frac{3}{2}$ $\frac{6}{2}$ $\frac{3}{2}$ $\frac{6}{2}$ $\frac{3}{2}$ $\frac{18}{2}$ $\frac{18}{2}$

To undo a fraction (in front of the variable) multiply by the reciprocal

TWO STEP EQUATIONS

$$-2x-4=-12$$
 $+4$
 $+4$
 $-2x+0=-8$

STEP 2: Undo multiplication or division on the variable side

$$\begin{array}{cccc}
-2x &=& -8 \\
-2x &=& -7 \\
\hline
1x &=& 4 \\
\hline
1x &=& 4
\end{array}$$

STEP 1: Undo addition and subtraction on the variable side

MULTI-STEP EQUATIONS

STEP 2: Combine like terms on the same side.

$$6x + 9 = 4x - 1$$

$$-4x - 4x$$

$$2x + 9 = 0 - 1$$

STEP 4: Undo addition or subtraction on the variable side

$$2x+0 = -10$$
 $3x = -10$
 $3x = -5$
 $1x = -5$

STEP 1: complete an distribution if necessary

STEP 3: Move all variables terms to the same side

STEP 5: Undo multiplication or division on the variable side