3-1 Solving Two-Step Equations

A **solution of an equation** is _____

_____

In order to solve equations our goal is to _____

To do this we use Properties of Equality

$x-6=2$	$-1+x=5$

$10=x+4$	$x+5=-2$

$7x=21$	$-8x=48$

$\frac{x}{5}=2$	$\frac{x}{3}=-6$

Some tougher ones…

1. $\frac{x}{-4}=5$

2. $-\frac{x}{4}=5$

3. $\frac{-x}{4}=5$

4. $\frac{2x}{5}=2$

5. $\frac{2}{5}x=2$

6. $\frac{2}{5x}=2$

$$8x-3 = 6x+9$$
$$-6x \quad -6x$$
$$2x-3 = 0+9$$
$$2x-3 = 9$$
$$+3 \quad +3$$
$$2x-0 = 12$$
$$2x = 12$$

Some Observations:

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Let's Try a Few Two Step Equations!

$3x+6=18$ $\quad -10=-6+2c$ $\quad -r-3=5$

$\frac{m}{3}+5=20$ $\quad 9-\frac{g}{5}=19$ $\quad \frac{3h}{4}-2=4$

Practice 3-1 Name _____

Solve each equation. Check your answer on your calculator.

1. $2n-5=7$

2. $8=-3x-1$

3. $8+\frac{c}{-4}=-6$

4. $\frac{-y}{2}+14=-1$

5. $9=-x+8$

6. $0.4x+9.2=10$