OLVING EQUATIONS BY ADDITION

*** To solve do the same operation to both sides of the equation.

Use the opposite operation. The opposite of Subtraction is Addition.

$$x - 4 = 19$$

$$x - 4 + 4 = 19 + 4$$

$$x + 0 = 23$$

x-4=19 x-4=19 x-4=19+4 x+0=23 x=23Sumar. x=23*** Get the variable (letter) by itself on one side of the equation. regative positive

Practice:

1)
$$x - 5 = 12$$

$$+5 + 5$$

$$X = 17$$

$$\begin{array}{c|c}
50 = x - 8 \\
+ 8 & + 8
\end{array}$$

3)
$$x-5 \pm 7$$

 $+5$ $+5$
 $\times = 12$

4)
$$x - 11 = 19$$

$$x = 30$$

5)
$$x - 3 = 21$$

$$+ 3 + 3$$

$$\times = 24$$

6)
$$4.1 = x - 2.7$$

 $+2.7 + 2.7$
 $0.8 = X$

7)
$$x-85 = 1.9$$

+2.5 + 2.5
 $\times = 4.4$

8)
$$0.9 = x - 2.1$$

 $+2.1$, $+2.1$
 $3.0 = \times$

SOLVING EQUATIONS BY SUBTRACTION

*** To solve do the same operation to both sides of the equation.

Use the opposite operation. The opposite of Addition is Subtraction.

$$x + 4 = 18$$

$$x + 4 - 4 = 18 - 4$$

$$x + 0 = 14$$

$$x = 14$$

*** Get the variable (letter) by itself on one side of the equation.

Practice:

9)
$$x + 8 = 28$$

$$75 - 5$$

$$X = 23$$

$$10) \quad 19 = x + 7$$

$$12 = X$$

$$\begin{array}{ccc}
x + 9 &= 14 \\
-4 & -9 \\
\hline
\hline
\times & = 5
\end{array}$$

$$\begin{array}{ccc}
7 &= x + 3 \\
-3 & -3
\end{array}$$

13)
$$x + 7 = 19$$

 $-7 - 7$
 $x = 12$

14)
$$3.4 = x + 2.4$$
 -2.4
 $1.0 = x$

15)
$$2.0 = x + 1.1$$

 -1.1 -1.1
 $0.9 = x$

16)
$$x + 4.5 = 6.2$$

 $-4.5 - 4.5$
 $X = 1.7$