Add & Subtract Equations   **# 30**

Equation - # sentence that has an = sign.

       Both sides of the = sign must be the same in value (like a balanced scale)

<u>Steps</u>

1. Copy the problem
2. Find the variable
3. Use the opposite operation to get the variable alone

       + opposite of −

       − opposite of +

4. What you do to one side (of the = sign) you must do to the other
5. Cancel the side with the variable and solve the other

Ex. $k + 18 = 64$
     $-18 \quad -18$
     $\boxed{k = 46}$

Ex. $p + 25 = 39$
     $-25 \quad -25$
     $\boxed{p = 14}$

Ex. $x - 12 = 34$
     $+12 \quad +12$
     $\boxed{x = 46}$

Ex. $n - 6 = 27$
     $+6 \quad +6$
     $\boxed{n = 33}$

Ex. $16 = x - 4 \;\rightarrow\;$ can rewrite $\;\rightarrow\; x - 4 = 16$
                           $+4 \quad +4$
                           $\boxed{x = 20}$