2.1 One Step Equations

To solve an equation or formula, **isolate** the variable (unknown) by doing the **opposite**.

If a quantity is **added** to the variable, **subtract** that quantity from each side.

$$-15 + f = -1$$

15-15 +f = -1- (-15) $f = -1$ - (-15)
 $0 + f = 14$
 $f = 14$

If a quantity is **subtracted** from the variable, **add** that quantity to each side.

If a quantity is **multiplied** by the variable, **divide** each side by that quantity.

$$-60 = -12k$$

$$\frac{-60}{-12} = \frac{-12k}{-12}$$

$$5 = 1k$$

$$5 = k$$

If the variable is **divided** by a quantity, **multiply** each side by that quantity.

$$\frac{e}{13} = 4$$

$$e = 52$$