

11-2-06

SWBAT: solve one
STEP EQUATIONS USING
ADDITION and Subtraction.

By using the Properties
of Equality we can get
the solution to a
variable equation.

Subtraction Property of
Equality

You can subtract the same
value from both sides of
the equation.

$$9 + b = 12$$

Comm. Pr. $b + 9 = 12$

$$b + 9 - 9 = 12 - 9 \quad \left. \vphantom{b + 9 - 9 = 12 - 9} \right\} \text{ Prove it}$$

Identity
of ADD. $b + 0 = 3$

$$b = 3$$

$$9 + \underline{3} = 12 \quad \checkmark \text{ it.}$$

Addition Property of Equality.

You can add the same value to both sides of the equation.

$$b - 12 = 59$$

Prove
it!

$$b - 12 + 12 = 59 + 12$$

$$b + 0 = 71$$

$$b = 71$$

Check
your work

$$b - 12 = 59$$

$$71 - 12 = 59 \quad \checkmark$$

$$100 + x = 250$$

$$x + 100 - 100 = 250 - 100$$

$$x + 0 = 150$$

$$x = 150$$

$$100 + 150 = 250$$

Identity

$$t - 35 = 62$$

$$t - 35 + 35 = 62 + 35$$

$$t + 0 = 97$$

$$t = 97$$

$$97 - 35 = 62$$

check
it

Proveit

$$W - 6 = -16$$

$$W - 6 + 6 = -16 + 6$$

$$W + 0 = -10$$

$$W = -10$$

$$-10 - 6 = -16$$

$$-10 + -6 = -16$$