GOAL: Get the variable (X) by itself.

To get X by itself, you must get rid of the 4!

The 4 is being added to X. To get rid of the 4 you must do the inverse (opposite) of what is already being done. Inverse of addition is subtraction.

X + 4 = 3

-4 -4

Χ

**=** -1

**Example 1:** X + 4 = 3.

Example 2: X - 6 = 8.

GOAL: Get the <u>variable</u> (X) by itself.

To get X by itself, you must get rid of <u>6</u>!

The 6 is being <u>subtracted</u> from X. To get rid of the 6 you must do the <u>inverse</u> (opposite) of what is already being done. <u>Inverse</u> operation is <u>addition</u>.

X - 6 = 8

## **ANSWER KEY: 1-STEP EQUATIONS**

Example 4:  $-\frac{w}{7} = 3$ GOAL: Get the <u>variable</u> (w) by itself.

To get w by itself, you must get rid of <u>-7</u>!

The operation between w and -7 is <u>division</u>.

To get rid of -7 do the <u>inverse</u> (opposite) of what is already being done. <u>Inverse</u> operation is <u>multiplication</u>.  $-\frac{w}{7} = 3$   $-\frac{7}{7} \times -\frac{w}{7} = 3 \times \frac{x}{7} - \frac{x}{2}$  w = -21