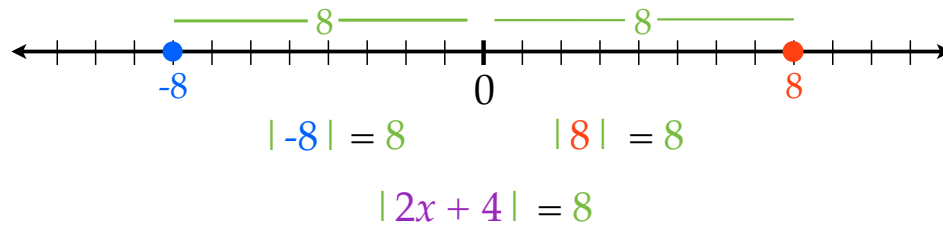


Absolute Value

The **absolute value** of a number is its **distance** from zero on the number line.



Steps to Solve an Absolute Value Equations

1. Isolate **absolute value expression**
2. Create **two equations**

$$|x| = a$$

$x = a$

$x = -a$

3. **Solve both equations**

Solve the following Absolute Value Equations

$$|3x| = 24$$

Solve the following Absolute Value Equations

$$3|4x| = 48$$

Solve the following Absolute Value Equations

$$2|x + 5| = 18$$

Solve the following Absolute Value Equations

$$4|-3x| + 5 = 29$$

Solve the following Absolute Value Equations

$$-2|x - 6| = 8$$

Steps to Solve an Absolute Value Equations

1. Isolate absolute value expression

2. Create two equations

$$\begin{array}{c} |x| = a \\ \swarrow \quad \searrow \\ x = a \quad x = -a \end{array}$$

3. Solve both equations