Solving Algebraic Equations

Part 1

What's an equation?

An equation is a mathematical statement indicating that two expressions are equal.

An example of an equation is:

$$3x + 4 = 19$$

The goal when solving an equation is to find the value of the variable that makes the equation true.

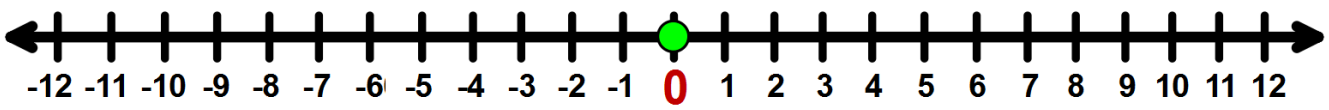
To solve equations, we try to get the variable by itself on one side of the equation.

We use <u>OPPOSITE OPERATIONS</u> to isolate the variable.

Let's start with simple one...

$x + 5 = 12$

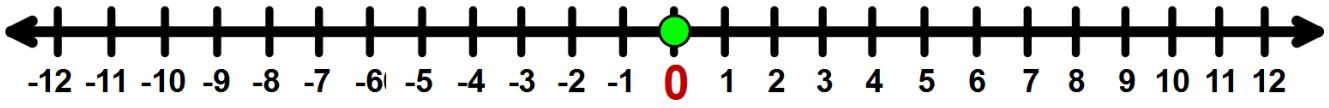
I think the answer will be:



A few more...

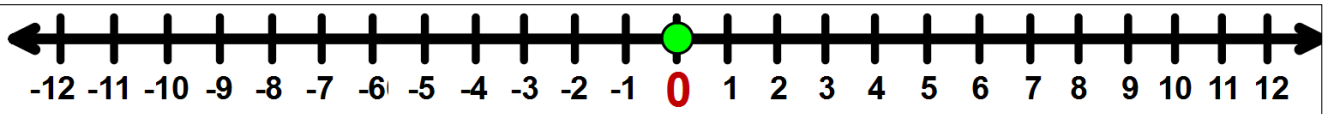
a) $x + 3 = 9$ Guess:

b) $x - 4 = 10$ Guess:



c) $h + 10 = -2$ Guess:

d) $y - 7 = -5$ Guess:



You try!

a) $x + 9 = 15$

b) $p - 7 = 13$

c) $12 = m + 16$

d) $8 = x - 2$

e) $4 + x = 19$

f) $-9 + x = 10$