Solving Linear Equations

Solve:
$$2x + 7 = 15$$

solve means find out what number *x* is

we can manipulate the equation as long as we do the same to both sides

$$2x + 7 = 15$$
 we get rid of +7 by taking 7

$$\frac{2x}{x^2} = \frac{8}{x^2}$$
 to get rid of x2 we divide by 2

$$x = 4$$

Solve:
$$5x + 2 = 3x + 14$$

$$5x + 2 = 3x + 14$$

The first step is to get rid of the smallest x. In this case 3x:

$$2x + 2 = 14$$

Then we get x on its own:

$$2x = 12$$

$$x = 6$$