## Solving Equations and Inequalities - Guided Lesson Explanation

## Explanation#1

48 < y this is a sign of less than which means 48 is less than y. Put values of y in to find the answer.

We are looking for a number larger than 48. Lets input all the numbers:

Replace y = 71 in 48 < y

48 < 71

48 is less than 71, so it proves equation. So it is correct.

Replace y = 12 in 48 < y

48 < 12

48 is not less than 12. So it is not correct.

Replace y = 48 in 48 < y

48 < 48

48 is equal to 48, so it does not prove the equation right.

Replace y = 37 in 48 < y

48 < 37

48 is greater than 37. It also does not prove the equation, so it is not a solution.

## Explanation#2

a) Replace t with the number 4 in the inequality.

t < 3

4 < 3

It is false that 4 < 3. 4 is not less than 3. So, t = 4 is not a solution

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## Explanation#3

b)  $x \ge 14$  shows that x is greater than or equal to 14. The number we are looking for should be greater or equal to 14.

To find the answer, replace x with the options given:

Put the value x = 3 in  $x \ge 14$ 

$$x = 3$$

$$3 \ge 14$$

3 is not greater or equal to 14. So, x = 3 is not solution.

Replace x = 6 in  $x \ge 14$ 

$$x = 6$$

6 is not greater or equal to 14. So, x = 6 is not solution.

Replace x = 0 in  $x \ge 14$ 

$$x = 0$$

0 is not greater or equal to 14. So, x = 0 is not solution.

Replace x = 16 in  $x \ge 14$ 

$$x = 16$$

16 is greater than 14. So, x = 16 is right solution.