

Name \_\_\_\_\_

Date \_\_\_\_\_

## Solving Equations and Inequalities - Step-by-Step Lesson

a) Is  $v = 8$  a solution to the inequality below?

$$v < 6$$

b)  $A \geq 10$

Which value for A would make the inequality true?

- i) 5      ii) 0      iii) 12      iv) 9

### Explanation:

a) Place 8 into the inequality in the place of  $v$ .

$$v < 6$$

$$8 < 6$$

As we know that 8 is greater than 6 and sign between 8 and 6 is less than.

This means it is false that  $8 < 6$ . So,  $v = 8$  is not a solution

b) Put the value of  $A = 12$  into the inequality.

$$A = 12$$

$$12 \geq 10$$

It is true that  $12 \geq 10$ . All the other numbers are less than 10.

So the answer is iii.

