

Name \_\_\_\_\_

Date \_\_\_\_\_

## Inequalities and Numbers Lines - Step-by-Step Lesson

### Lesson 1 Inequality Problem:

What inequality does this number line show?



### Explanation:

Step 1) A filled-in circle includes the number it is located on.

An **open circle** does not include the number it is located on.

Step 2) We want to write an inequality that says  $x$  can be anything shown by the arrow and circle.

Step 3) The open circle located on 4 means that  $x$  cannot be equal to 4. The arrow pointing to the right means that  $x$  can also be any number greater than 4.

Since  $x$  can be any number greater than 4, the inequality is written as  $x > 4$ .

