

INEQUALITY - A mathematical sentence that compares \_\_\_\_\_ using one of the symbols \_\_\_\_\_ or \_\_\_\_\_.

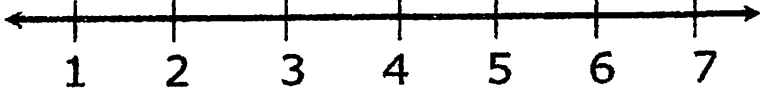
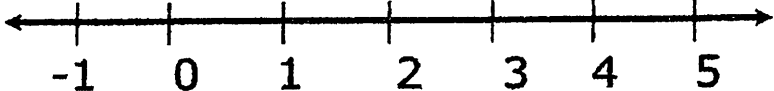
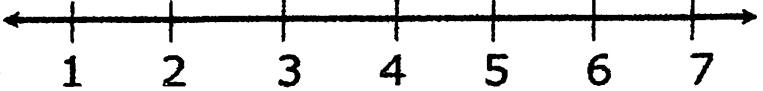

SYMBOL	MEANING	KEY WORDS TO HELP DECIDE WHAT SYMBOL TO USE

**WRITING INEQUALITIES**

- A number less than 5.
- A number less than or equal to 7.
- A number greater than 3.
- A number greater than or equal to 4.

The \_\_\_\_\_ of an \_\_\_\_\_ is the set of numbers that you can \_\_\_\_\_ for the \_\_\_\_\_ to make the inequality \_\_\_\_\_.

• **Graphing Inequalities on a Number Line**

Place an _____ on the number, and _____ all numbers _____ your answer.	
Place a _____ on the number, and _____ all numbers _____ than your answer.	
Place an _____ on the number, and _____ all numbers _____ than your answer.	
Place a _____ on the number, and _____ all numbers _____ than your answer.	

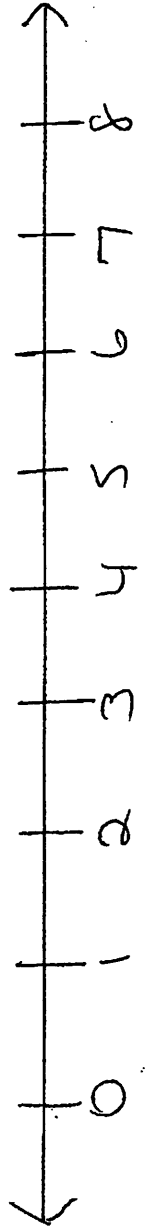
For 1-12, graph the solutions to each inequality on a number line.

1.  $w \leq 0$
2.  $x > 5$
3.  $z \geq 9$
4.  $g < 4$
5.  $7 < t$
6.  $m > 2$
7.  $4 \geq q$
8.  $h \leq 10$
9.  $a \leq 8$
10.  $6 > y$
11.  $y < 3$
12.  $l \geq j$

For 28-29, write an inequality for each sentence. Then graph your inequality.

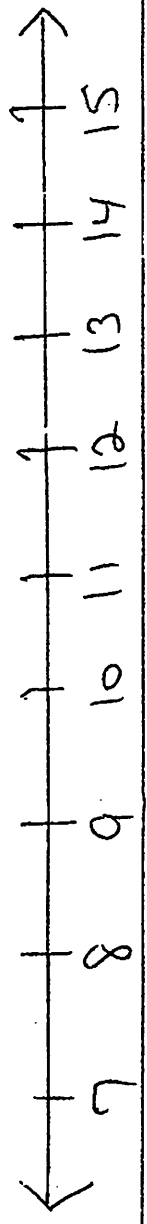
28. C is less than or equal to two

write:



29. P is greater than 11

write:



34. What's the error?



Draw the correct graph.

A student graphed  $x > 1$  as shown. What did the student do wrong?