An inequality is a pair of expressions or numbers that are not equal.

You can use these signs to express an inequality:

greater than

greater than or equal to

less than

**≤** less than or equal to

When you solve an inequality, you need to show all of the values that make the statement true. One way to do this is by graphing the inequality on a number line.

examples:

 $x \ge 2 + 6$  (x is greater than or equal to 2 + 6)



## ~PREVIEW~

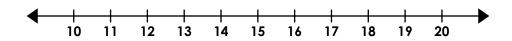
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pencil or crayon.

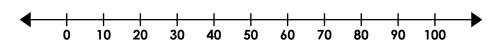
1. k ≤ 17 - 8 word form:



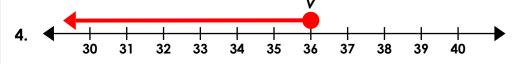
2. 14 + 4 > q word form:



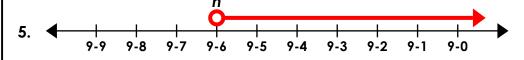
3.  $b \ge 20 + 0$  word form: \_\_\_\_\_



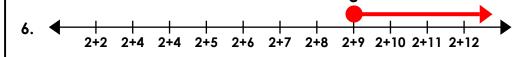
Write the inequality shown by each number line.



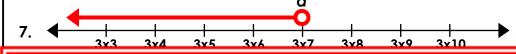
answer: \_\_\_\_\_



answer: \_\_\_\_



answer: \_\_\_\_\_



answer:



# PREVIEW~

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- 10. For the inequality  $r \ge 3x4$ , Patel says 12 and 16 are both solutions. Is she correct? Explain why or why not.
- 11. For the inequality  $o \le 6+8$ , Porter says 8 and 14 are both solutions. Is he correct? Explain why or why not.
- 12. Anh walks her dog at least 4 times each weekday plus twice more each Saturday. Show the inequality of Anh's Saturday dog walks on a number line.



An inequality is a pair of expressions or numbers that are not equal.

You can use these signs to express an inequality:

> greater than > greater than or equal to

When you solve an inequality, you need to show all of the values that make the statement true. One way to do this is by graphing the inequality on a number line.

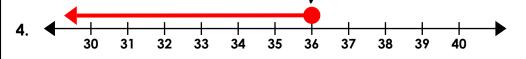
examples:  $x \ge 2 + 6$  (x is greater than or equal to 2 + 6)



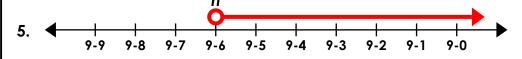


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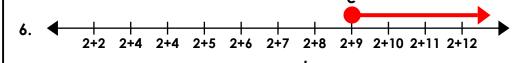
Write the inequality shown by each number line.



answer: <u>v ≤ 36 or 36 ≥ v</u>



answer: n > 9-6 or 9-6 < n



answer: e ≥ 2+9 or 2+9 ≤ e



# →PREVIEW~

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