Name:

Introduction to Inequalities

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 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. First, you must isolate the variable on one side of the inequality.

example: $x - 6 \le 7$ (x minus 6 is less than or equal to 7)

+6 +6

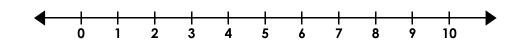
 $x \le 13$ (x is less than or equal to 13)



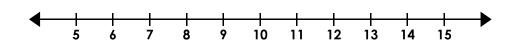
Preview

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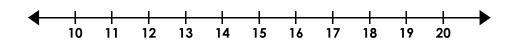
1. a + 7 ≥ 9



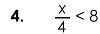
2. 24 > 2q

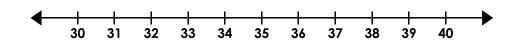


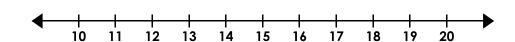
3. *t* - 2 ≤ 17



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6.
$$n + 20 \ge 90$$



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9. For the inequality 5k > 100, Keegan says 20 and 100 are both solutions. Is he correct? Explain why or why not.

10. Juanita says both 0 and 1 are solutions for the inequality $u + 5 \le 6$. Is she correct? Explain why or why not.

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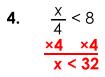
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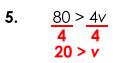
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ii. Mererore, bom i ana o woara make me megaamy nac