Write inequalities from number lines

In each case, write your answer starting with a variable.

What inequality does the number line below show?

- **What inequality does the number line below show?**
  - 20 30 40 50 60 70 80 90 100 110 120 130

Let’s use \( x \) as the variable.
The filled-in circle means that, \( x = 60 \).
Then, the arrow pointing to the right means \( x \) can be any number greater than 60.
So, since \( x \) can be 60 or any number greater than 60, the inequality is

\[ x \geq 60 \]

What inequality does the number line below show?

- \(-100\) \(-90\) \(-80\) \(-70\) \(-60\) \(-50\) \(-40\) \(-30\) \(-20\) \(-10\) \(-9\) \(-8\) \(-7\) \(-6\) \(-5\) \(-4\) \(-3\) \(-2\) \(-1\) \(0\) \(1\) \(2\) \(3\)

Let’s use \( t \) as the variable.
The open circle means that \( t \) cannot be equal to 2.
Then, the arrow pointing to the left means \( t \) can be any number less than 2.
So, since \( t \) cannot be equal to 2 and can be any number less than 2, the inequality is

\[ t < 2 \]

Graph the inequality below on the number line.

- \(-4\) \(-3\) \(-2\) \(-1\) \(0\) \(1\) \(2\) \(3\) \(4\) \(5\) \(6\) \(7\)

Graph the inequality below on the number line.

- \(3\) \(4\) \(5\) \(6\) \(7\) \(8\) \(9\) \(10\) \(11\) \(12\) \(13\) \(14\) \(15\) \(16\) \(17\) \(18\) \(19\) \(20\) \(21\) \(22\) \(23\) \(24\) \(25\)

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Let’s use \( t \) as the variable.
The open circle means that \( t \) cannot be equal to 2.
Then, the arrow pointing to the left means \( t \) can be any number less than 2.
So, since \( t \) cannot be equal to 2 and can be any number less than 2, the inequality is \( t < 2 \).

What inequality does the number line below show?

\( x \geq -100 \)

What inequality does the number line below show?

\( x < -3 \)

What inequality does the number line below show?

\( u \leq 0 \)

Graph the inequality below on the number line.

\( y \geq 17 \)