

Name: \_\_\_\_\_

# U4L1: Intro to Inequalities

Inequalities are a pair of expressions which are not equal.

It is *comparing two different amounts*.

The following symbols are used to relate the two expressions in an inequality:

$x >$	GREATER THAN	MORE THAN BIGGER THAN
$x \geq$	EQUAL TO OR GREATER THAN	THE SAME AS MORE THAN BIGGER THAN
$x <$	LESS THAN	SMALLER THAN LITTLER THAN
$x \leq$	EQUAL TO OR LESS THAN	THE SAME AS SMALLER THAN LITTLER THAN

Inequalities can be expressed with those symbols or words, **or** through graphs.

Graphs are represented on number lines and use circles and arrows to explain the inequality.



Open circles mean the number with the circle is NOT included.



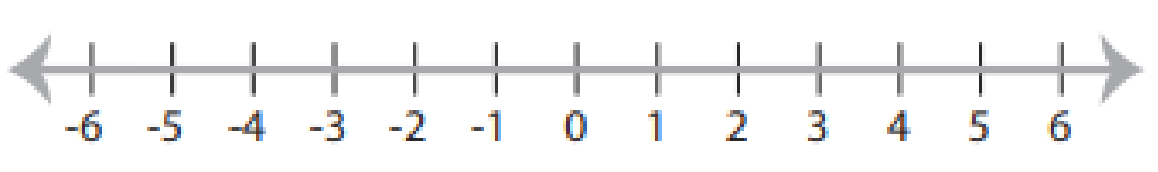
Closed circles means the number with the circle is included.

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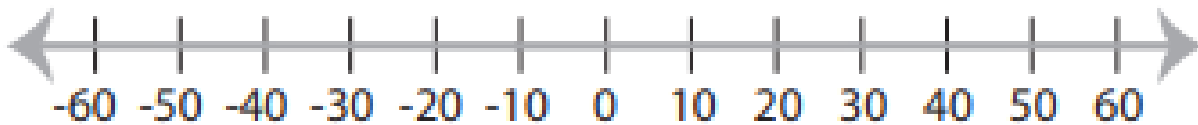
## Practice!

Graph the following inequalities:

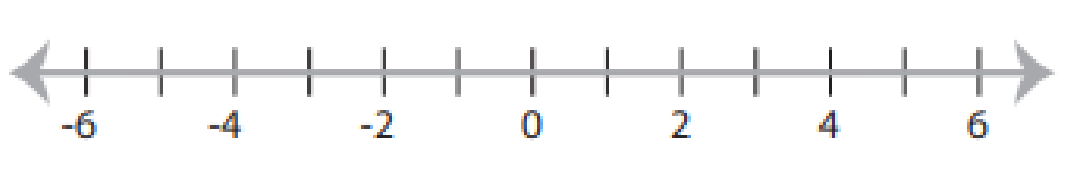
$$a < 2$$



$$x > -10$$



$$b \leq 4$$

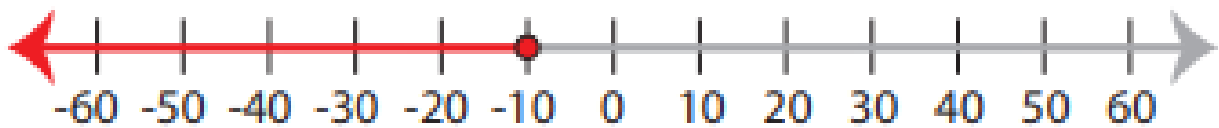
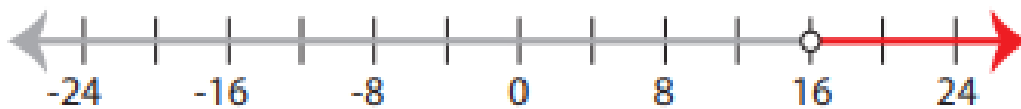


$$y \geq -15$$



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Write the inequality with symbols for the following graphs / phrases:



**M** is equal to, or lesser than -2.

**B** is greater than -16.