By the end of this lesson you will be able to $\qquad$ .

## What is the difference between solutions to equations and solutions to inequalities?



Example 1 - Graph the inequality on the number line.
$\qquad$
$x>6$ translates to " "

1) Is 6 a solution for $x$ ?
a. $\qquad$ b. $\qquad$
2) In which direction are the solutions to the inequality?
a. $\qquad$
b. $\qquad$


Example 2-Graph the inequality on the number line.
$\qquad$

1) Is 5 a solution for $x$ ?
$\qquad$ b. $\qquad$
2) In which direction are the solutions to the inequality?
a. $\qquad$
b. $\qquad$


Example 3 - Graph the inequality on the number line.
The school holds $\qquad$ students.

1) Is $\qquad$ a solution for $x$ ?
a. $\qquad$
b. $\qquad$
2) In which direction are the solutions to the inequality?
a. $\qquad$
b. $\qquad$


Example 4-Graph the inequality on the number line.
Each group has $\qquad$ students.

1) Is $\qquad$ a solution for $x$ ?
$\qquad$
a.
b. $\qquad$
2) In which direction are the solutions to the inequality?
a. $\qquad$
b. $\qquad$


## Your Turn to Practice

Write out each inequality in words. Then draw the inequality on the number line.

1) $x \quad 1$ $\qquad$
2) $x>3$ $\qquad$
3) $x$

3 $\qquad$
4) $x<2$ $\qquad$


