8.6 Write and Graph Inequalities (6.EE.8)

Steps to Writing
1.) Write the variable <u>First</u> (UHCr)
2.) Write the correct inequality $SigM$ $(<, >, \le or \ge).$
3.) Then, write the NUMBER.
 Key Words at least - means greater than or equal to no more than - means less than or equal to more than or over - means greater than less than or under - means less than

Guided Practice

Write an inequality for each sentence.

1.) The movie will be no more than 90 minutes in length.

2.) The mountain is at least 985 feet tall.

3.) The rollercoaster ride is less than 3 minutes.

4.) The soccer team wants to make more than three goals in this game.

5.) (Less than 15 students completed the fitness challenge.

5415

Steps to Graphing

- 1.) Say it in words.
- 2.) Identify the correct circle.
- 3.) Identify the shading.
- 4.) Graph on number line.

Different Circles

An open circle represents: > (greater than) and < (less than)

A closed circle represents: ≤ (less than or equal to) and ≥ (greater than or equal to)

Graph each inequality on a number line.

3.) 4 ≤ 6

4.) b > 4

5.) c < 1







5.) Tasha can spend no more than \$40 on new books. Write and graph an inequality to describe how much she can spend.

t < 40



Partner Talk

Write an inequality for the sentence.

Swim practice will be no more than 35 laps.

S 4 35



Building on the Essential Question - How can graphing an inequality help to solve it?

Graphing shows multiple solutions to the problem.