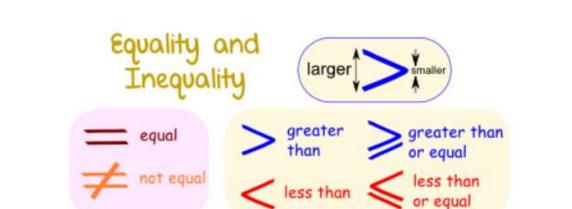
Name:		Date:
Ms. Napolitano		Activity #:
	Topic: Inequality	

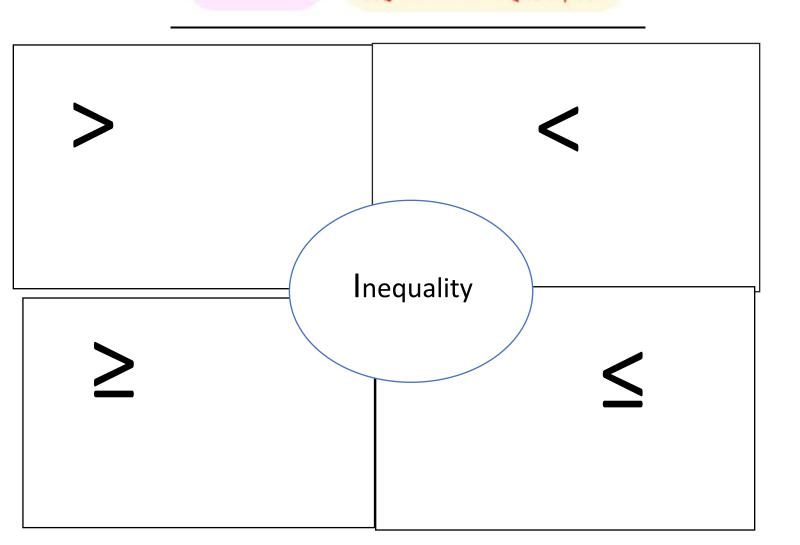
<u>Try Now_(01)</u>

What is an inequality?

An inequality has <u>infinitely</u> many solutions.

What does infinitely mean?





Model

Example #1

a.	"Your	friend	is m	ore	than	3 r	ninu	tes	late.	"
	-3	-2	-1	0	1	2	3	4	5	6

• What do you notice about the numbers that you circled?

• Is the number 3 included? Why or why not?

b. "The temperature is at most 2 degrees."

-5 -4 -3 -2 -1 0 1 2 3 4

• What do you notice about the numbers that you circled?

• Can the temperature be exactly 2 degrees? Explain.

c. "You need at least 4 pieces of paper for your math homework."

-3 -2 -1 0 1 2 3 4 5 6

• What do you notice about the numbers that you circled?

• Can you have exactly 4 pieces of paper? Explain.

• Write four other numbers that make the statement true.

_____, _____, and _____.

	What do you notice about the numbers that you circled?
	• Is the number 6 included? Why or why not?
	Write four other numbers that make the statement true
Exar	nple #2
Wr	ite the following statements as an inequality.
-1	Vour friend is more than 3 minutes late
a)	Your friend is more than 3 minutes late.
a)	Your friend is more than 3 minutes late.
ŕ	Your friend is <i>more than</i> 3 minutes late. The temperature is <i>at most</i> 2 degrees.
ŕ	
b)	The temperature is at most 2 degrees.
b)	
b)	The temperature is at most 2 degrees.
b)	The temperature is at most 2 degrees.

Example #3
Jay-Z spent more than five million dollars on Beyonce's engagement ring.
a. Write three possible values of the price of Beyonce's engagement ring.
b. Write an inequality to represent the price of Beyonce's ring, r.
Example #4 Ms. Napolitano does not want to spend no more than \$15 on her lunch today. a) Write three possible values of the cost for Ms. Napolitano's lunch.
b) Write the inequalitiy to represent the cost of Ms. Napolitano's lunch, c.
Example #5
Ms. Napolitano said that you need to get at least an 80% on the test to receive mastery.
a) Write three possible values that will satify this statement.

Example #6 Write the appropriate inequality. The building has more than 56 floors. 2. The ice cream shop allowed you to choose from 9 flavors or less. Burger King has 45 seats. 4. No more than 50 students will try out for the rugby team. Explain what the inequality you wrote represents in the context of the problem. Is it possible for 51 students to try out? Explain. The high school has 57 teachers. Torii earned at most 25 credits today. Is it possible that Torii earned 25 credits? Explain what the inequality you wrote Explain. represents in the context of the problem.

CFU: Which inequality below matches the following scenario: Her hair was no more than 12 inches long.

x > 12 x < 12 x ≤ 12 x ≥ 12