Name:	Date:	Period:
i varic.	Date.	i ciiou.

Everyday Inequalities

Inequalities are often found in our everyday lives. The phrases "at most", "at least", and "no more than" are just a few ways we express inequalities – times when there may be more than one option or solution. For each real world situation below, draw a number line to help you determine how the algebraic inequality should look. Consider the following:

- What might be some possible solutions?
- **○** Is the given number included in my solution set?
- Which way should the arrow point to include these possible solutions?
- Does my inequality make sense?

	Problem	Possible Solutions?	Number Line	Inequality
1.	To buy a ticket to the fair, you must have at least \$5		<+ + + + + + + + + + + + + + + + + + + 	
2.	To enter the kids' pool, you must be less than 4 feet tall		<+ + + + + + + + + + + + + + + + + + + 	
3.	The admission price of a movie is above \$8.50		<+ + + + + + + + + + + + + + + + + + + 	
4.	Luckily, your math test has fewer than 23 questions		<+ + + + + + + + + + + + + + + + + + + 	
5.	Each arcade game charges more than 1 token		<+ + + + + + + + + + + + + + + + + + + 	
6.	Gym class is no more than a half hour		<+ + + + + + + + + + + + + + + + + + + 	
7.	To receive an A in math, you need a grade above an 82% on your final exam		<+ + + + + + + + + + + + + + + + + + + 	
8.	The meteorologist said the temperature would be lower than 65°F today		<+ + + + + + + + + + + + + + + + + + + 	

Name:	_ Date:	Period:
-------	---------	---------

Problem	Possible Solutions	Number Line	Inequality
9. You get paid no less than \$32 for mowing the lawn		<+ + + + + + + + + + + + + + + + + + + 	
10. You must be at least 4.5 feet tall to ride the roller coaster		<+ + + + + + + + + + + + + + + + + + + 	
11. You have more than 200 Instagram followers #famous		<+ + + + + + + + + + + + + + + + + + + 	
12. Starbucks hot chocolate costs at least \$3.00		<+ + + + + + + + + + + + + + + + + + + 	
13. There are fewer than 7 people in my study group		<+ + + + + + + + + + + + + + + + + + + 	
14. My grandmother lives more than 2 miles away		<+ + + + + + + + + + + + + + + + + + + 	
15. My birthday is fewer than 10 days away		<+ + + + + + + + + + + + + + + + + + + 	

It's your turn! Create 5 of your own real-life inequalities.

16.	<+ + + + + + + + + + + + + + + + + + + 	a <
17.	<+ + + + + + + + + + + + + + + + + + + 	b>
18.	<+ + + + + + + + + + + + + + + + + + + 	c≥
19.	<+ + + + + + + + + + + + + + + + + + +	d≤
20.	<+ + + + + + + + + + + + + + + + + + + 	e≠