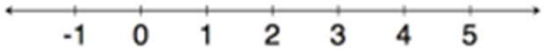
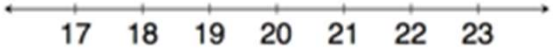
Inequalities Worksheets

Write an inequality to represent each situation. Then, graph the solution.

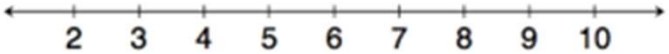
1. Blayton is at most 2 meters above sea level.



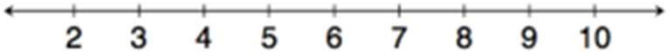
2. Edith must read for a minimum of 20 minutes.



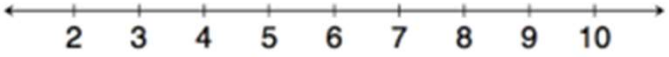
3. Travis milks his cows each morning. He has never gotten fewer than 3 gallons of milk; however, he always gets fewer than 9 gallons of milk.



4. Rita can make 8 cakes for a bakery each day. So far, she has orders for more than 32 cakes. Right now, Rita needs more than four days to make all 32 cakes.



5. Rita must have all the orders placed right now done in 7 days or fewer. How will this change your inequality and your graph?



Inequalities Worksheets

Write an inequality to represent each situation. Then, graph the solution.

1. Blayton is at most 2 meters above sea level.

$b \leq 2$, where b is Blayton's position in relationship to sea level in meters

2. Edith must read for a minimum of 20 minutes.

$E \geq 20$, where E is the number of minutes Edith reads

3. Travis milks his cows each morning. He has never gotten fewer than 3 gallons of milk; however, he always gets fewer than 9 gallons of milk.

$3 \leq x < 9$, where x represents the gallons of milk

4. Rita can make 8 cakes for a bakery each day. So far, she has orders for more than 32 cakes. Right now, Rita needs more than four days to make all 32 cakes.

$x > 4$, where x is the number of days Rita has to bake the cakes

5. Rita must have all the orders placed right now done in 7 days or fewer. How will this change your inequality and your graph?

$4 < x \leq 7$

Our inequality will change because there is a range for the number of days Rita has to bake the cakes. The graph has changed because Rita is more limited in the amount of time she has to bake the cakes. Instead of the graph showing any number larger than 4, the graph now has a solid circle at 7 because Rita must be done baking the cakes in a maximum of 7days.