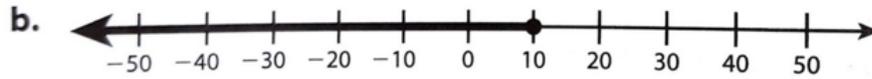
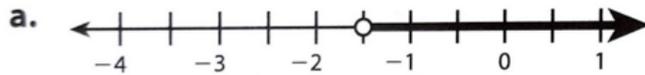


INEQUALITIES HW

1. Write the inequality shown on each graph.

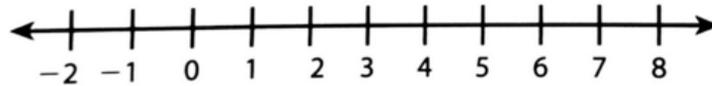


2. The children at Lincoln School go outside for recess if the temperature is 3°C or higher.

For what temperatures will the students go outside?

- a. Write an inequality to represent this situation.

- b. Graph the solution.

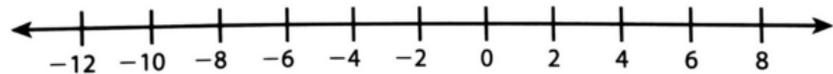


3. If your score on a computer game is less than 0, you lose your next turn.

For what scores will you lose your turn?

- a. Write an inequality to represent this situation.

- b. Graph your solution.



4. You must spend at least \$10 at the grocery store to get a free watermelon.

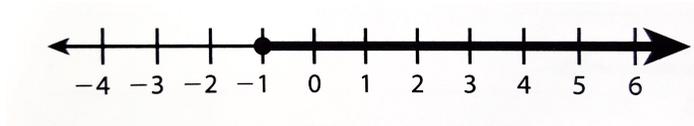
- a. Write an inequality to represent the amount you need to spend to get a free watermelon.

- b. Graph the solution on a number line.

- c. If you spend \$9.50, will you get a free watermelon? Use the graph to explain how you know.

5. Kiara is scuba diving. She will not dive below -30 meters relative to the surface of the water.
- Write an inequality that represents this situation.
 - Is -20 a solution to the inequality? Explain how you know.

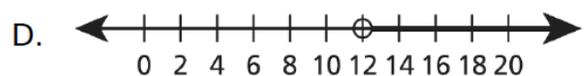
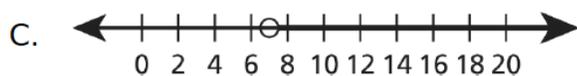
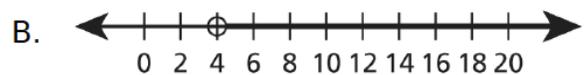
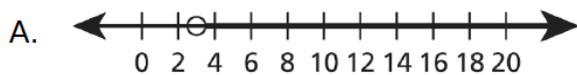
6. Marcos looks at the graph below and says that -1 is the only possible negative solution. Do you agree or disagree? Explain.



7. Andre wants to spend no more than \$15 each week on lunch. Let x represent the amount of money he spends each week on lunch. Which inequality represents the situation?

- $x < 15$
- $x > 15$
- $x \leq 15$
- $x \geq 15$

8. A printer makes more than 3 copies of a book every hour. Which graph represents the number of books made in 4 hours?



9. Which of these values is a solution to the inequality $x - 1 \geq 6$? Select all that apply.

- 7
- $3\frac{1}{2}$
- 2.5
- 10

10. Consider the inequality $x > -0.75$. Tell whether each statement is **True** or **False**.

- -0.75 is a solution to the inequality.
- There are many solutions to this inequality.
- All of the solutions to the inequality are negative.
- The inequality $-0.75 < x$ is equivalent to the given inequality.
- -4.5 is a solution to the inequality.