Practice Assignment   **0   25   50   75   100**

Graph the inequalities on a number line:

1. $m \geq -3$

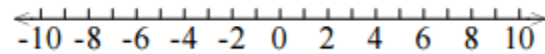2. $6 > y$

3. $-1 \leq x$

4. $8 < a$

Solve and graph each inequality.

5. $x - 3 > -8$

6. $4x + 1 \leq 9$

7. $21 \leq 3 + 9x$

8. $7 < 4q - 9$

Solve and graph each inequality on your own number.

9. $\frac{x}{4} - 3 \leq 9$

10. $\frac{x-6}{4} \neq 2$

11. $2m + 2 - 3 \leq 9$

12. $7a - 6 < 15$

13. $6 + \frac{2}{3}x < 4$

14. $3(x - 3) + 5x > -3x - 20$

15. A list of possible solutions for an inequality is shown below. Circle the solutions that make the inequality true. Then list three additional solutions to the inequality.
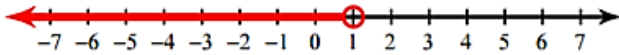
Inequality: $8 < 4x$ **Possible Solutions:** -2, -1, 0, 1, 2, 3, 4, 5   **Three Additional Solutions:**
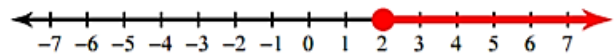
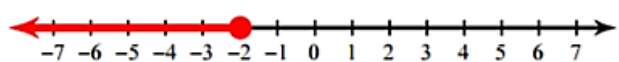16. Write the inequality shown by each graph:
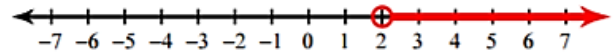
a.

b.

c.

d.

e. Explain how to write an inequality that is modeled by a graph. What characteristics do you look for in the graph?