Foundations of Algebra Name:

Unit 5 – Day 9 Practice

**Graph the inequalities on a number line:**

1. m ≥ -3 2. 6 > y

 

**Solve and graph each inequality.**

3. x - 3 > -8 4. -4x + 1 ≤ 9

 

**Solve and graph each inequality on your own number.**

5. $\frac{x}{4}-3\leq 9$ 6. $\frac{x-6}{4}\ne 2$

7. $-2m+2-3\leq 9$ 8. $a-6<15+8a$

9. $6+\frac{2}{3}x<4$ 10. $3\left(x-3\right)-5x>-3x-6$

9. A list of possible solutions for an inequality is shown below. Circle the solutions that make the inequality true.

**Inequality:** 8 ≤ -4x **Possible Solutions:** -2, -1, 0, 1, 2, 3, 4, 5

10. Write the inequality shown by each graph:

a. b.

  

11. Which is NOT a solution of the inequality 3 – x < 2? (Show/explain how you arrived at your answer).

A. 1

B. 2

C. 3

D. 4