Algebra 1 Unit 6 Worksheet 1

Name:____

Date:_____

Period:____

Directions: Please answer the following questions. Show work!!

1. List the domain and range. Is the relation a function? EXPLAIN! {(3,4), (1,-8), (5,4), (-5,5), (0,-3)}

2. For the expression, 4x + 3 - 7y a. Identify the constant.

b. What vocabulary word describes the 4 in 4x?

c. What vocabulary word describes the y in -7y?

Solve and graph on a number line.

3. 4m > 6m + 30

4. $\frac{5}{8}p \le 50$

5. Use the rules of exponents to simplify.

a. (3a ² bc ⁵) ²	• 4ac ⁷
--	--------------------

b. $\frac{100xy^7z}{15xyz^3}$

6. Simplify the following roots.

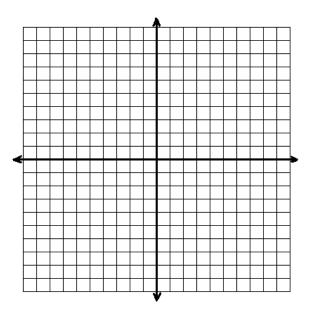
a. $\sqrt{250}$

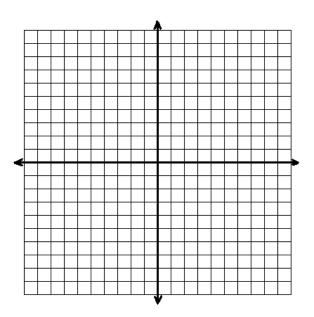
b. $\sqrt{144x^5y^8}$

7. In a race, would you rather your car had an average speed of 64 meters per second or an average speed of 223,000 meters per hour? Explain your reasoning.

8. Graph 6x + 3y = 12

9. Graph 5y = 2x - 35





10. For m(x) = 3x - 1, $v(x) = x^2 + 2x + 5$, and $g(x) = x^4$, find the following.a. g(-1)b. m(90)c. v(2)