Algebra 1 Quiz 8.30.13   Wonderful Algebra Student:_____ Period: _____

Show all of your work for full credit!!!

1. Simplify $2 - 12 \div 3 + 4^2 \cdot (-15 + 3 \cdot 5)$

For #2-3, use a t-chart to graph the functions

2. $y = -2x + 5$

3. $y = \frac{1}{4}x - 3$

4. **Fair:** At the Sonoma County Fair, it cost $10 for general admission and $4 per ride.

   a. What is the cost if you were to go on the Farris Wheel and the Zipper?

   b. What would it cost someone to ride on 6 rides?

   c. Write an algebraic expression for the cost of going to the fair and riding *r* rides.

   d. If you had $56 to spend at the fair, what is the *maximum* number of rides you could go on?

BONUS!!! Dimensional Analysis: $46 \frac{\text{kilometers}}{\text{liter}} = \underline{\hspace{3cm}} \frac{\text{Miles}}{\text{gallon}}$

(**hint**: 1km = 0.62miles & 1gallon = 3.78541 liters)