Name: _____

October Choice Board (Algebra)

DUE: OCTOBER _____

Directions: You must do 2 assignments from this page. Each is worth 50 points and together, add up to a test grade for the month. Answer them on a separate sheet of paper showing all work and attach the sheet to both assignments.

Create a table showing the first ten digits of the following graphs: 1. $y = 3x - 2$ 2. $y = -5x + 8$ 3. $y = 2x + 3$ 4. $y = -6x - 9$ 5. $y = 7x$	Explain how to put the following in the calculator: $X + 7 = 12 + 3x - 7x$ 1. Give directions 2. Explain why this works	Define: • compound inequality • inequality • intersection • union • equation • precision • accuracy • formula • unit rate • scale factor
Describe the difference between >, <, ≥, ≤. Show a one-step and two-step example of each. Also explain how to set up a number line (open and closed circle, where to shade etc.)	Find the 5 hardest problems in Chapter 1. • Write them down • Explain why someone might find the to be the hardest • Solve/Attempt to solve	Create T-chart. Label the sides "Equations" and "Inequalities" 1. Give a definition of both 2. Find 2 examples of both (4 total) 3. How are the similar? 4. How are they different?
Write an equation and solve each of the following: **1.** Alicia's brother is three years younger than twice her age. The sum of their ages is 24. How old is Alicia? **2.** Mahya is saving to take an SAT prep course that costs $350. So far, she has saved $180, and she adds $17 to her savings each week. How many more weeks must she save to be able to afford the course? **3.** Kameryn types 75 words per minute and is just starting to write a term paper. Joe already has 510 words written and types at a speed of 60 words per minute. For what numbers of minutes will Kameryn have more words typed than Joe?	Draw and label a graph that is: • Horizontal • Slanting upward • Vertical • Slanting downward Create a story for the following: **Graph A** 	Tell us about Absolute Value: What is it? What is the difference between: $\lvert X + 3 \rvert = 10$ & $\lvert X \rvert + 3 = 10$ Find the solutions.