**Algebra 1 – In-Class Name:**

**Unit 3- Linear Equations Word Problems Period: 3 8 Date: 12/13/17**

***With your group, answer problem 1 letters a-g. Put your answers on Chart Paper.***

1. A local youth group is planning a trip to a local amusement park. They are taking their church bus which holds 32 people. It will cost $25 for parking and tickets to enter the park are $22.50 per person.
2. What is the independent variable? Dependent variable?
3. Create a chart

c. Graph the situation. Write an equation.

1. Discrete or Continuous. Explain.
2. Find the Domain and Range.
3. When they have 30 people how much will it cost?
4. When the cost is $250, how many people are going?

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***Answer problem 2 letters a-g. Put your answers on a separate sheet of paper. Make sure your work is organized.***

1. Reese decides to start a business by printing designs on t-shirts and selling them for $20 each. The printing machine and materials for 500 t-shirts costs $1000. Reese is interested in calculating the profit of his business. (Profit is defined as difference of amount spent and amount made.)
2. What is the independent variable? Dependent variable?
3. Create a chart

c. Graph the situation. Write an equation.

1. Discrete or Continuous. Explain.
2. Find the Domain and Range.
3. When he sells 102 t-shirts, what is his profit?
4. When will he have a profit of $0?

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