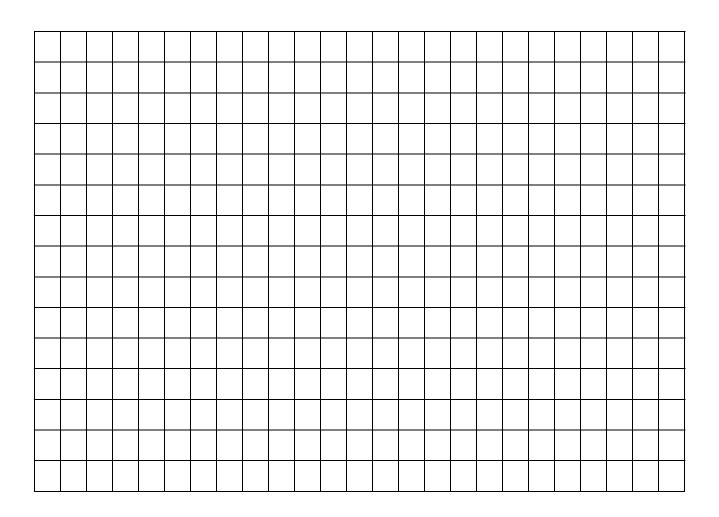
My Cotton Boll Data Version C

Goal: Identify an equation to determine the relationship between cotton lint weight and the number of cotton seeds to determine the value for farming profit.

1)	Pull the cotton out of the bur. Weigh the lint on the balance in ounces. Record the weight here:
2)	Estimate the number of seeds in your lint. Pick the seeds out of the lint. Record the number of seeds here:
3)	Use the Goal above to write an if-then hypothesis.
4)	Identify your x and y variables:
	Independent variable:
	Dependent variable:
5)	Use the space to compile the data from your group. Create a table below to show the number of seeds and th weight of the cotton lint for each person.
6)	Is this relation a function? Why or why not?

7) Use the grid below to create a graph of your group's data.



8)	Is there a correlation?	What type?	
u,	is there a correlation:	vviiat type:	

- 9) Find the line of best fit.
- 10) Predict the weight of cotton lint that contains 125 seeds. Explain how you determined this.

11) Weigh your lint without the seeds and record in ounces:oz.
If about 2/3 of a cotton bale is seeds, does the weight of your lint reflect this?
12) How many ounces of cotton lint did your group collect? Are you able to create the following or how man more ounces would you need to create the following?
a. Jeans (1.5 lbs.) b. Bath Towel (0.6 lbs.) c. Cloth Diaper (0.15 lbs.) d. T-Shirt (0.5 lbs.)
How many of each could be created from a cotton bale that averages 500 lbs?
13) What would you explain to a farmer about the weight of the cotton lint and what they should expect on the return of cotton seeds produced?
Provide a model for the farmer
14) If cotton is selling for \$0.79 per 16oz and a bale of cotton weighs around 500 lbs., how many bales of cotton would a farmer need to sell to gross \$500,000?
A farmer produces 24 tons of cotton. What would be the gross sale of the cotton?
15) If about 2/3 of a cotton bale is seeds, how many seeds should a farmer expect from a bale of cotton?
How does this compare to your best fit equation of your line?
What would be the income of the seeds from a bale of cotton at \$0.18 per pound?