Grocery Store Takedown	Name	Date
Ever notice how things downtown are so r would pay less for something if given the o	•	an anywhere else? Don't you think people
is lower than a nearby store. You will com store that sells items for a lot cheaper than will have to use ratios, percents, and fracti	pare that stores prices to regular stores, and in m ons in order to explain h	•
Part I. Choose a product from Sams Club		
Go to www.samsclub.com and look for a plesser price, than at your local store. If it a 10523.	• •	ald like which you think you can sell at a the store in Elmsford, NY whose zip code is
What is your product?		
What size do they sell it in at most local sto Why did you choose this product:	ores?	Sam's CLUB®
How much does it cost for a box at Sams C	lub?	
How many items come in one box?	What is th	ne size of each item?
What is the Sams Club cost per item? box)	(The cos	t of the box relate d to the items in the

If you don't have a store in mind, Go to google maps maps.google.com and look at your neighborhood. Find a store you can visit on the way home today. It could be a bodega, a cvs, or keyfood, or anything else.

What is the name of your store? _____

Part I b. Finding Your Competitor Store

Where is it located? Building, Street address or Intersection _____

Grocery Store Takedown	Name	Date
Part II. Research your store and e		
		t you want to compare prices. If possible please bring CVS, Duane Reade, etc) get started with their website.
What price does your item sell for	r at the store?	
What size is the item at the store	?	Is it the same size as at Sams Club?
How does the price at your store	compare to the cost a	at Sams Club?
Researching you store. Choose C	NE method to estima	ate how much of your product gets sold
A. How many of the items are o	n the shelf at the stor	e?
If you can, take a picture of all y	our items on the shelf	f, along with the price tag, if it is marked stimate their daily sales. Explain your thinking.
B. Ask an employee for an estim	nate of how many get	sold each day
		item?
Use that to make an estimate of	f how many people w	ould possibly walk past the item in a day:
Based on what you found in you	research, how many	items do you plan to sell each day?
Explain your reasoning		
If you were off by 5% how much		lay?
Low Estimate (5% Less)	Hi	gh Estimate (5% More)

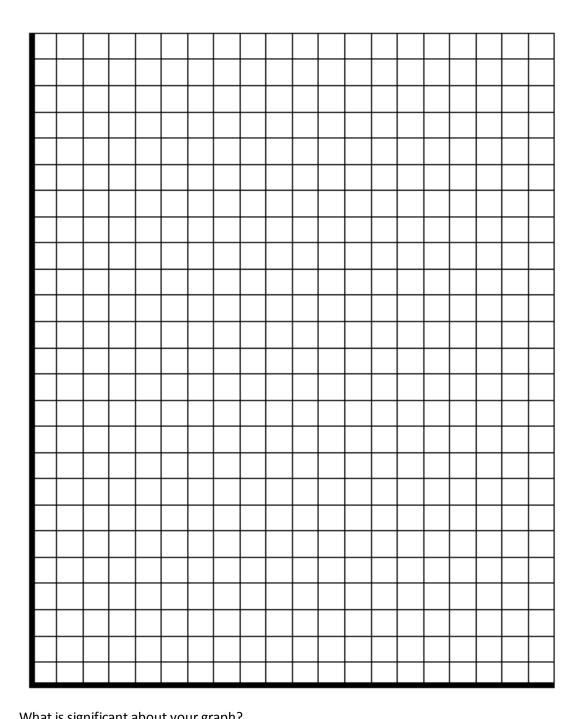
Part III. Setting a price to sell your product

When you sell something you need to decide a price, and that price could depend on a lot of things. You want your price to be lower than the store you are trying to takedown, otherwise people will just walk to the store and buy it. You also want the price to be higher than your costs, so you don't lose money on it.

Write an inequality statement that describes to product at: (remember < is less than, and > is	the lowest and the highest possible price you can sell your greater than)
Dood off of the consideration ideal with	
Based off of the scenario decide an ideal unit	price for selling one product that you think people will pay and
Unit Price:	
Explain why you chose that price.	
to encourage someone to buy 2 or more item	volume discount if they buy more of the product. Sellers do this as when they would have only bought just one item. this should so you should try to use whole numbers like "3 for 7"
Volume discount price: Explain why you chose that price.	Break that down to the unit price:
Use your tables to come up with an idea of ho customers using each pricing plan	ow much money you would make after you getyour first five

Unit Price	Earnings	Volume Pri	ce Earnings
Customer	Earnings	Customer	Earnings
0		0	

Use the graph below to make a graph of both of your pricing plans:



What is significant about your graph?
Using variables, write two equations that can be used to calculate the earnings you would have given any number of sales.

art IV. Do	etermine if you will make a profit	Name	Date
	PROFIT??? When working with mone noney you have spent. To find profit,		about profit. Profit takes your earnings d subtract your costs from them
se you es	stimate in Part II to figure out how ma	ny boxes you need fo	or each month. Explain your thinking:
oxes nee	ded each month? C	ost each month's bo	xes? Explain below:
			
	bles below and to show how much pr re early on) Start with the first 3 days,		e from each day. (Hint: your profits will 30 days
e negativ	re early on) Start with the first 3 days, ofit = Earnings - Cost It will be Profit =	then put 10, 20 and	30 days
e negativ Pr	e early on) Start with the first 3 days,	then put 10, 20 and	
e negativ Pr	re early on) Start with the first 3 days, rofit = Earnings - Cost It will be Profit = Unit Price Earnings	then put 10, 20 and	Volume Price Earnings
e negativ Pr	re early on) Start with the first 3 days, rofit = Earnings - Cost It will be Profit = Unit Price Earnings	then put 10, 20 and .75*1 - 873 Day	Volume Price Earnings
e negativ Pr	re early on) Start with the first 3 days, rofit = Earnings - Cost It will be Profit = Unit Price Earnings	then put 10, 20 and .75*1 - 873 Day	Volume Price Earnings
e negativ Pr Day	re early on) Start with the first 3 days, rofit = Earnings - Cost It will be Profit = Unit Price Earnings	then put 10, 20 and .75*1 - 873 Day	Volume Price Earnings
e negativ Pr	re early on) Start with the first 3 days, rofit = Earnings - Cost It will be Profit = Unit Price Earnings	then put 10, 20 and .75*1 - 873 Day	Volume Price Earnings
e negativ	re early on) Start with the first 3 days, rofit = Earnings - Cost It will be Profit = Unit Price Earnings	then put 10, 20 and .75*1 - 873 Day	Volume Price Earnings

+++
+ + +
_

Part V. Final Writeup

If you are going to use this for a portfolio you have to go through and explain in detail what you did in each section of the project.

The sections of the project are:

Part I. Choose a product from Sams Club Part I b. Finding Your Competitor Store

Part II. Research your store and estimate your sales

Part III. Setting a price to sell your product

Part IV. Determine if you will make a profit

Once you finish writing up the project, you should also write about the mathematics you used and what you learned about yourself as a learner during the class.

How did you feel about math before taking this class?

Summarize the main math concepts from this class:

Ratio

- What is a Ratio? Define it in your own words and provide an example
- Describe a situation that you could use a ratio to compare two different things (drink mixtures, rectangles, paint, etc)
- Describe how you can use a ratio to "scale up" or "scale down" according to a given relationship.

Decimals & Percents

- What is a Decimal? Define it in your own words and provide an example
- What is a Percent? Define it in your own words and provide an example
- Describe a situation that you could use a percent to compare two different things (drink mixtures, rectangles, paint, etc)

What did you learn during this class?