T Shirt Project

Name(s): Period:

Objective:

Your class is tasked with consulting with the class of 2017 regarding the viability of making t shirts as a class fundraiser. You will develop cost and revenue equations and use them to help inform the Class of 2017 on whether it is a "good idea" to make shirts as part of a class fundraiser. You will also include a list of concerns and considerations from you market research.

Part 1: Costs

- 1) List the costs of making shirts. Denote which costs are variable costs (change as the number of shirts change)
- 2) How much money would it cost to produce *one* shirt? *Two* shirts? *10* shirts? How much would it cost to product *x* number of shirts (this is your **cost equation**)?

3) Based off of your sales projections, how many t shirts should the class produce? Justify your answer.

4) What would be the *total cost* for producing that many shirts? Show your work.

Part 2: Revenue and Sales

5) Is there a relationship between the *price* of a t shirt and the number of t shirts sold (*sales*)? If so, please describe.

6)	Explain why you feel that these two prices will lead to the most revenue.
7)	Provide the Class of 2017 with two pricing options that will lead to the least <i>revenue</i> . Explain why these prices would likely lead to little (or zero) <i>revenue</i> .
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8)	Using your recommended sales price per shirt. How much revenue would the class of 2017 make if they sold one shirt? Two shirts? 10 shirts? How much revenue would they generate if they sold x shirts (this is your
	revenue equation)?
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Part 3:	Conclusions and Recommendations
9)	Using your <i>total cost</i> figure that you got from #4 and the <i>revenue equation</i> that you generated in #8. <i>How many</i> t shirts would the class of 2017 need to sell in order to <i>break-even</i> (hint: When does <i>costs = revenue</i>)?
10)	How many shirts would the Class of 2017 need to sell to <i>break-even</i> if they produced your recommended number of shirts