Business Model Linear Function Project

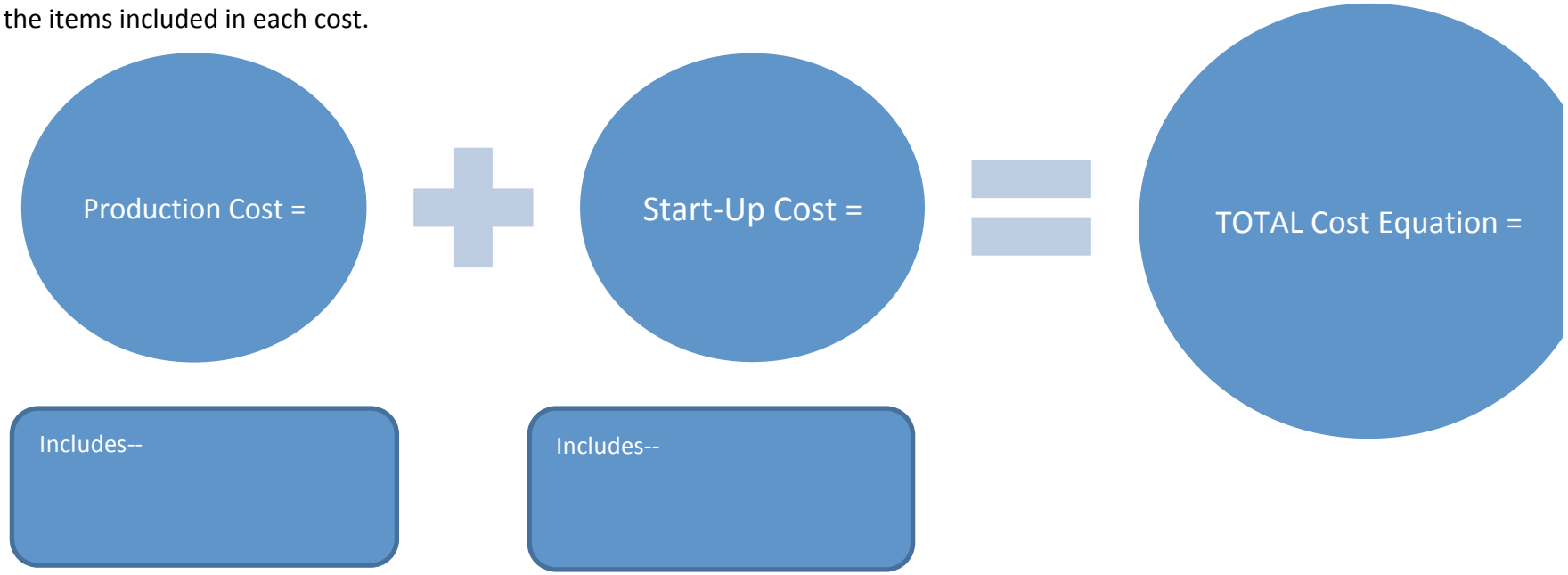
Develop a linear function business model. About selling cookies. You will compare the model using the values of 250 and 2000 for x. The model will develop/calculate the following items—

- Production (variable) cost
- Start-Up (fixed) cost
- Total cost (based on the two values of x)
- Average cost per item (based on the two values of x)
- Revenue (based on the two values of x)
- Profit (based on the two values of x)
- Break-Even Point

The submission should be typed, error free, and include labels in the following format:

I. **Description**: A short description of the topic and the reason you choose it.

II. **Cost Function Template**: Complete the production (variable) cost, start-Up (fixed) cost, and total cost function. For production and start-up c detail the items included in each cost.



III. **Revenue**: State selling price with reasoning

IV. **Findings**: Show each function as defined in the table in terms of x, x=250, and x=2000. Also, include a sentence for each explaining the meani the column.

	Cost Function	**Average Cost per Item**	**Revenue Function**	**Revenue-Cost**	**Profit Function**	**Break-Even Po**
In terms of x						x =
x = 250						N/A
x = 2000						N/A
Description:						

V. **Conclusion**: A summary of the outcome of the findings and the importance to your project.

We all want to be millionaires right? So calculate the value of x (number of items needed to sell) to make $1,000,000 in profit.
Show your work

I. Description:

Short explanation/description of the project with reason chosen.	1 pt. _____

II. Cost Function Template:

Production (variable) cost per x including detail of items in this cost.	2 pt. _____
Start-up (fixed) cost including detail of items in this cost.	2 pt. _____

III. Revenue:

Selling price with reasoning.	2 pt. _____

IV. Findings:

Cost function equation in terms of x	1 pt. _____
Cost accurately computed for x=250	1 pt. _____
Cost accurately computed for x=2000	1 pt. _____
Description of cost.	1 pt. _____
Average cost per item equation in terms of x	1 pt. _____
Average cost per item accurately computed for x=250	1 pt. _____
Average cost per item accurately computed for x=2000	1 pt. _____
Description of average cost per item including relationship between x values.	2 pt. _____
Revenue function equation in terms of x	1 pt. _____
Revenue accurately computed for x=250	1 pt. _____
Revenue accurately computed for x=2000	1 pt. _____
Description of revenue.	1 pt. _____
Profit function equation from revenue/cost calculations	1 pt. _____
Profit accurately computed from revenue/cost calculations for x=250	1 pt. _____
Profit accurately computed from revenue/cost calculations for x=2000	1 pt. _____
Description of profit from revenue/cost calculations	1 pt. _____
Profit function equation in terms of x	1 pt. _____
Profit accurately computed from function for x=250	1 pt. _____
Profit accurately computed from function for x=2000	1 pt. _____
Description of profit from function equation	1 pt. _____
Break-Even Point accurately computed/labeled	2 pt. _____
Description of Break-Even Point	1 pt. _____

V. Conclusion:

Short summary of the outcome of your findings and importance to your project.	1 pt. _____
Overall project follow guidelines in a well thought-out, mathematically correct format.	3 pt. _____
****BONUS****	3 pt. _____

TOTAL	35 pt. _____