GAME INSTRUCTIONS

In this experiment, you have the role of an inventory manager. You must decide how many units of a product you want to order and stock to sell to your customers.

You are making these decisions over multiple rounds. In every round, you are deciding on an order quantity.

You are making your decision under uncertainty. This means at the time of the order decision you do not know the exact demand of the period. However, you do know the probability distribution of the demand. The demand for your product will be shown by a distribution curve, shown on the decision-making page. Demand is independent between rounds.

You have no starting inventory in your warehouse at the beginning of the game. You will order units which then get delivered before demand is realized. Any leftover inventory after demand is realized will be charged a salvage fee per unit left over.

For example:

Available inventory: 90 units

Demand: 80 units

Leftover inventory: 90-80=10 units

Salvage fees are charged for the resulting leftover 10 units that are stocked in inventory.

If you purchased too few units in a period to fulfill this period's demand, the unfulfilled demand is lost. You cannot reorder within a period or shift demand to later periods. For example:

Purchased inventory: 30 units

Demand: 80 units Units Sold: 30 Units

You are trying to maximize your Profits in this experiment. Profit per round is calculated as follows:

Profit per round = Selling price x units sold - purchasing price x order quantity – salvage fee * leftover inventory

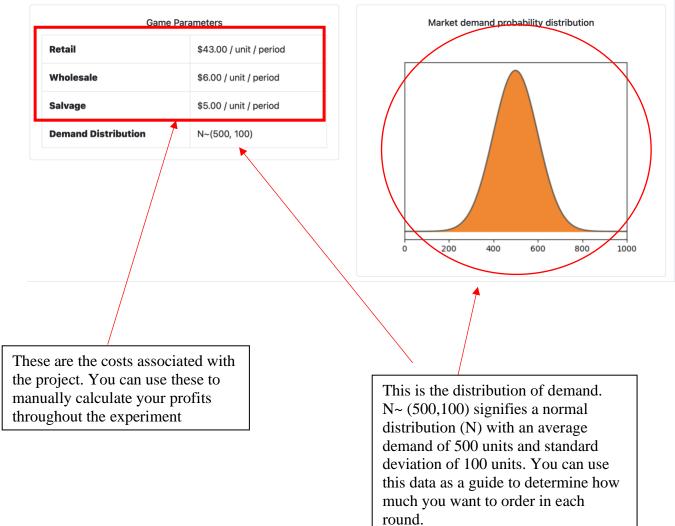
Therefore, profit = revenue - purchasing costs – salvage costs.

In this experiment, your costs will be displayed on the decision page.

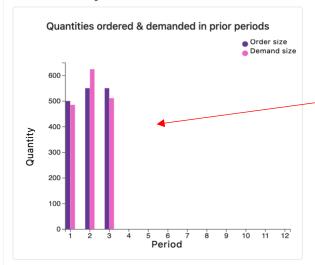
Here are 2 examples of calculating the profit of a round:

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Example 1:
selling price = $20 / unit
purchasing price = $7.5 / unit
salvage fee = $5 / unit
your order quantity = 50 units
demand = 20 units
Profit = $20 * 20 units [units sold = Minimum of demand and order quantity]
       - $7.5 * 50 units [order quantity]
       - $5 * 30 units [salvage inventory= order quantity - units sold]
       = - $125
Example 2:
Prices of example 1 apply here.
your order quantity = 50 units
demand = 100 units
Profit = $20 * 50 units [units sold = Minimum of demand and order quantity]
       - $7.5 * 50 units [order quantity]
       - $5 * 0 units [final inventory= 0]
       = $625
```

After clicking next below, you will come to the first demand page:



Game History Information



This is the graphical history of what you ordered (in purple) and what the actual demand was (in pink) for all prior rounds

Summary of key metrics of prior periods

Period	1	2	3	4	5	6	7
Order quantity	500	500	500				
Demand quantity (realized)	560	742	442				
Salvaged inventory	0	0	58				
Profit	\$18500	\$18,500	\$15,716				

This is the history (in numbers) including the profit realized per round and cumulative profit At the bottom, there is a place for you to input how much you want to order for the next round.

