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 carried over to the next round, which becomes starting inventory for the next period. The starting inventory and order quantity sum up to the available inventory.

Available inventory= starting inventory + order quantity

Holding costs occur for leftover inventory which is carried over between rounds. For example:

Available inventory: 90 units

Demand: 80 units

Leftover inventory: 90-80=10 units

Holding costs 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:

Available 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 - holding costs * leftover inventory

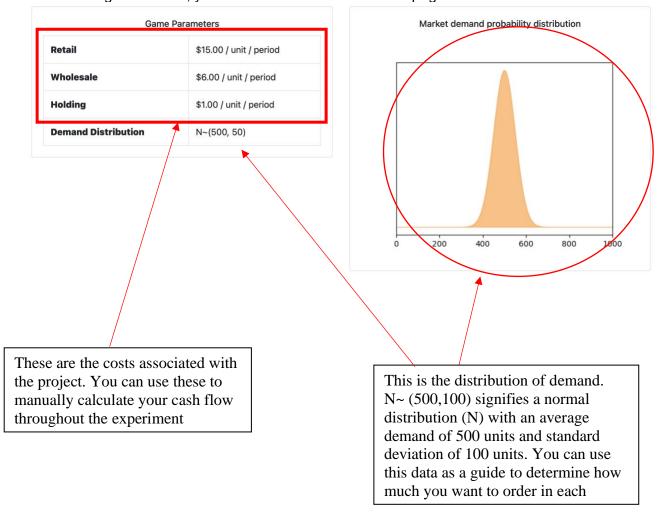
Therefore, profit = revenue - purchasing costs - holding costs.

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

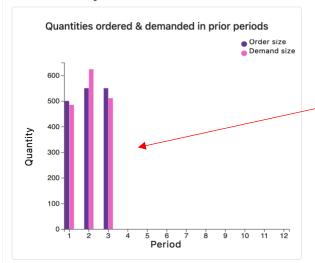
Here are 2 examples of calculating the profit of a round:

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Example 1:
selling price = $20 / unit
purchasing price = $7.5 / unit
inventory holding costs = $5 / unit
starting inventory = 10 units
your order quantity = 50 units
available inventory = 60 units (10 units available inventory + 50 units order quantity)
demand = 20 units
Profit = $20 * 20 units [units sold = Minimum of demand and available inventory]
       - $7.5 * 50 units [order quantity]
       - $5 * 40 units [final inventory= available inventory - units sold]
       = - $175
Example 2:
Prices of example 1 apply here.
starting inventory = 10 units
your order quantity = 50 units
available inventory = 60 units (10 units available inventory + 50 units order quantity)
demand = 100 units
Profit = $20 * 60 units [units sold = Minimum of demand and available inventory]
       - $7.5 * 50 units [order quantity]
       - $5 * 0 units [final inventory= 0]
       = $825
```

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



Game History Information

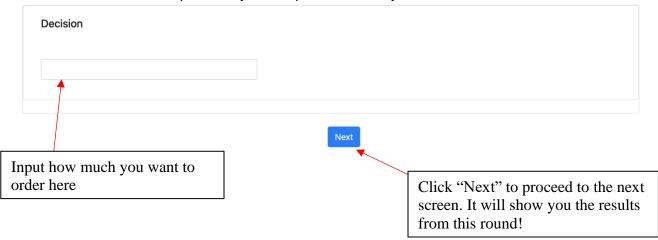


This is the graphical history of what you ordered (in purple) and what the actual demand was (in pink)

Summary of key metrics of prior periods

Period	1	2	3	4	5	6	7
Starting inventory (before order)	0	15	0	39			
Order quantity	500	550	550				
Demand quantity (realized)	485	624	511	\			
Profit	\$4,275	\$5,175	\$4,365				
Cumulative profit	\$4,275	\$9,450	\$13,815				

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.



Bonus pay will be calculated by multiplying profit from one round by .075%. For example, a single round profit of \$4,000 would lead to a bonus pay of 4,000*.00075= \$3. This pay will be added to your account in the next week.

At the end of the game, there will be a code to input into Prolific to get the base pay. MAKE SURE YOU COPY THE CODE FROM THIS PAGE BEFORE EXITING OUT OF THE GAME.

Please click the "Next" button below to start the game and thank you!