

- Select quantity with the lowest Total Cost, including the cost of the items purchased.

The following JavaScript compute the optimal values for the decision variables based on currently available information about the above factors.

Enter the needed information, and then click the **Calculate** button,

In entering your data to move from cell to cell in the data-matrix use the **Tab key** not arrow or enter keys.

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### The Classical Model

Demand rate: $x$	8000
Ordering cost: $C_1$	12000
Holding cost: $C_2$	0.3
<input type="button" value="Calculate"/> <input type="button" value="Clear"/>	
Optimal Ordering Is: $Q^*$	25298.22128134
Optimal Cycle Is: $T^*$	3.162277660168
Number of Orders Is: $n^*$	1
Total Cost Is: $TC$	7589.466384404

### Shortages Permitted Model

Demand rate: $x$	600000
Ordering cost: $C_1$	100
Holding cost: $C_2$	0.25