

ACCOUNTRONIC SOFTWARE

# **Excel**

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صدق الله العظيم

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<b>QBasic</b>	<b>(Objective Programming</b>	

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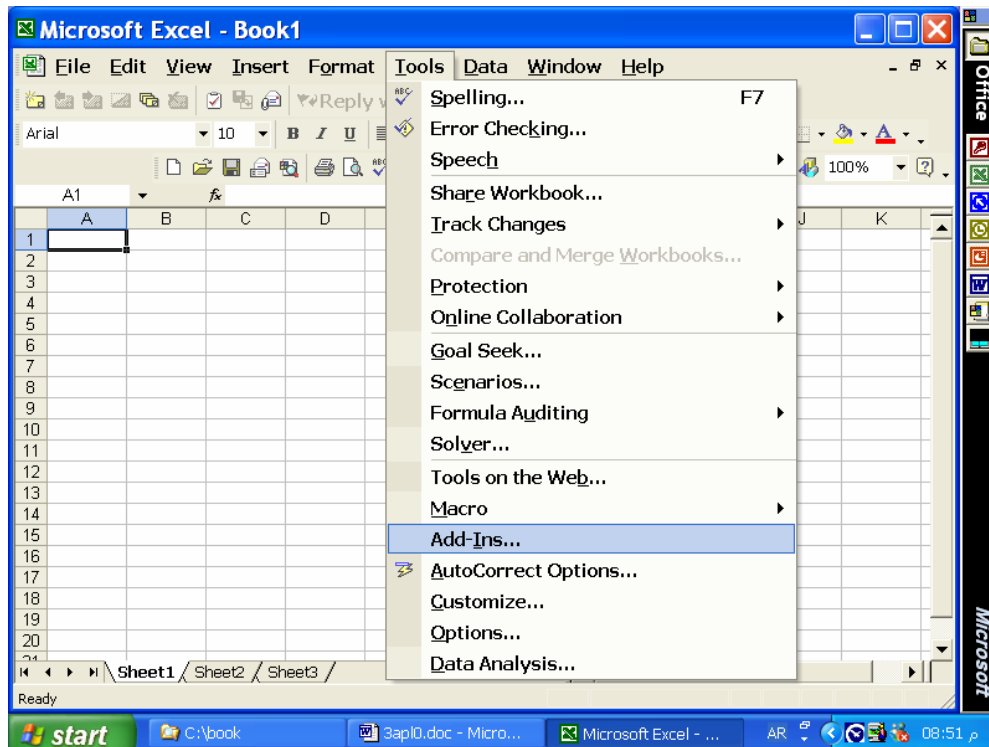
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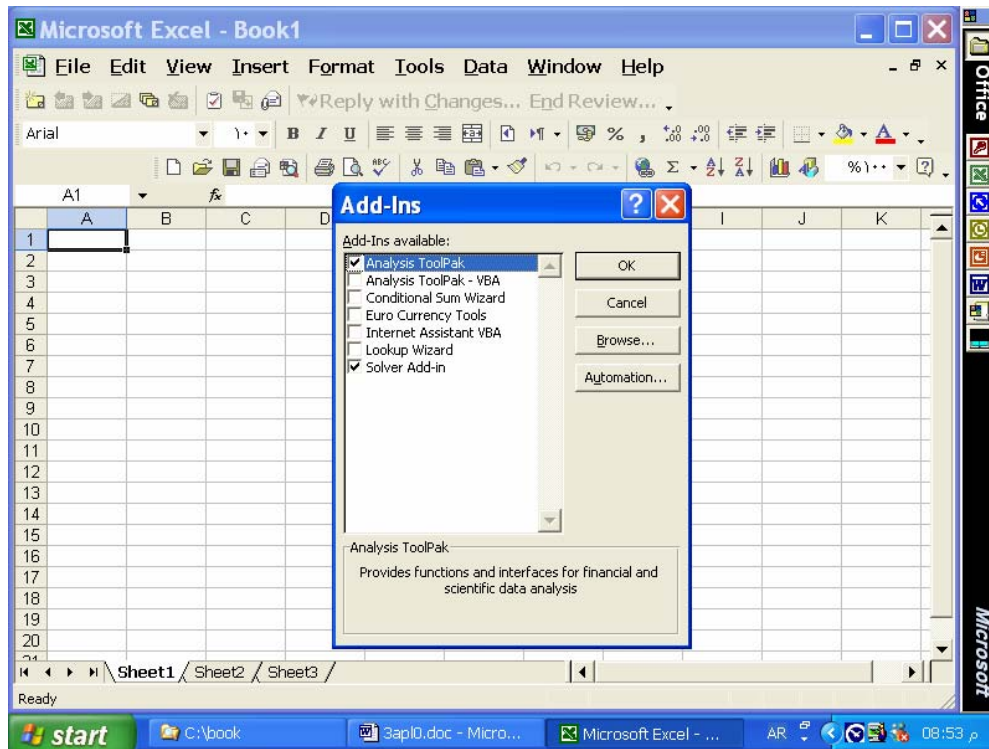
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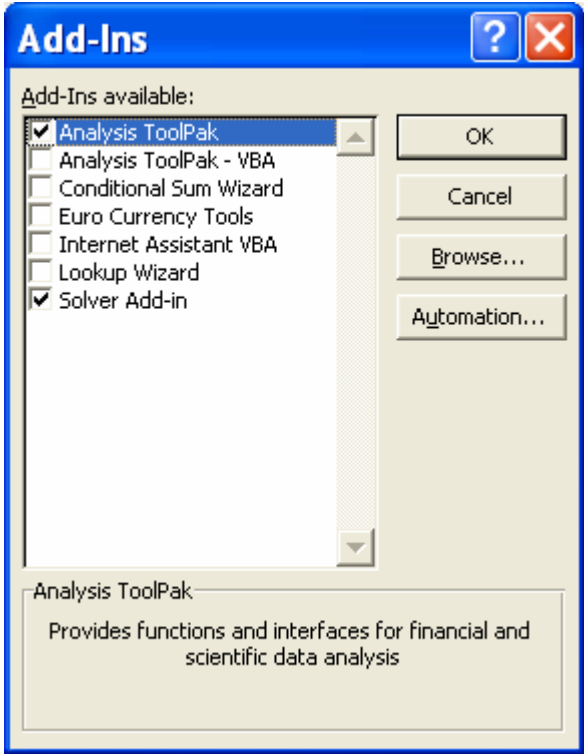
## *Solver*

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**Data Analysis (Analysis Solver  
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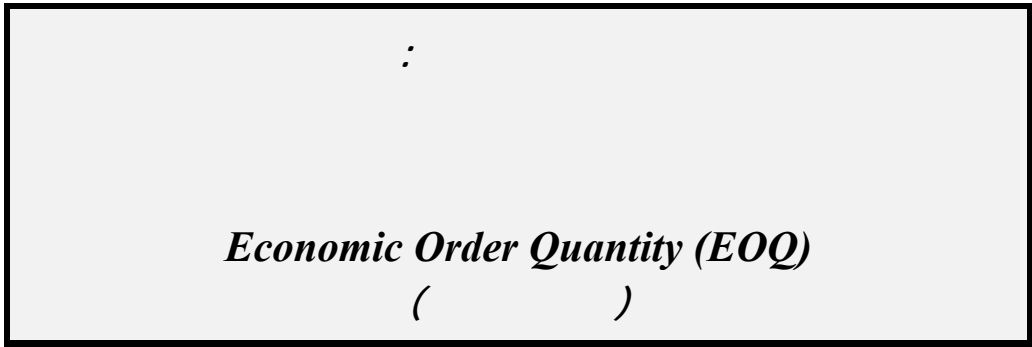
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**Data File: EOQ.xls**

**(The EOQ model parameters are already entered to excel worksheet, please see and open data file):**

- 1. Data on annual demand, ordering cost, annual inventory holding cost rate, cost per unit, working days per year and lead time in days are input in cells B3:B8.**
- 2. EOQ model formulas, which determine the optimal inventory policy, are placed in cells B13:B21.**
- 3. The value worksheet shows the optimal EOQ in cell B13.**
- 4. The Excel worksheet is a template that can be used for the EOQ model. You can plug or enter data to cells B3:B8, the result will automatically show in optimal inventory policy cells B13:B21.**
- 5. Please see applications shown on next screens.**

**The following screens exhibit the above steps to solve the excel application with different annual demand and cost per unit. (Note: Required data file is already saved on OR Data Files Subdirectory):**

**EOQ.xls :**

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 - B3:B8  
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	A	B	C	D	E	F
1	<b>Economic Order Quantity</b>					
2						
3	Annual Demand	104,000				
4	Ordering Cost	\$32.00				
5	Annual Inventory Holding Rate %	25				
6	Cost per Unit	\$8.00				
7	Working Days per Year	250				
8	Lead Time (Days)	2				
9						
10						
11	<b>Optimal Inventory Policy</b>					
12						
13	Economic Order Quantity	1824.28				
14	Annual Inventory Holding Cost	\$1,824.28				
15	Annual Ordering Cost	\$1,824.28				
16	Total Annual Cost	\$3,648.56				

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The screenshot shows a Microsoft Excel spreadsheet titled "EOQ.xls". The spreadsheet is used for calculating the Economic Order Quantity (EOQ) based on various input parameters. The data is organized as follows:

	A	B	C	D	E	F
3	Annual Demand	105,000				
4	Ordering Cost	\$32.00				
5	Annual Inventory Holding Rate %	25				
6	Cost per Unit	\$8.00				
7	Working Days per Year	250				
8	Lead Time (Days)	2				
9						
10						
11	<b>Optimal Inventory Policy</b>					
12						
13	Economic Order Quantity	1833.03				
14	Annual Inventory Holding Cost	\$1,833.03				
15	Annual Ordering Cost	\$1,833.03				
16	Total Annual Cost	\$3,666.06				
17	Maximum Inventory Level	1,833.03				
18	Average Inventory Level	916.52				

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Microsoft Excel - EOQ.xls

	A	B	C	D	E	F
3	Annual Demand	105,000				
4	Ordering Cost	\$32.00				
5	Annual Inventory Holding Rate %	25				
6	Cost per Unit	\$10.00				
7	Working Days per Year	250				
8	Lead Time (Days)	2				
9						
10						
11	<b>Optimal Inventory Policy</b>					
12						
13	Economic Order Quantity	1639.51				
14	Annual Inventory Holding Cost	\$2,049.39				
15	Annual Ordering Cost	\$2,049.39				
16	Total Annual Cost	\$4,098.78				
17	Maximum Inventory Level	1,639.51				
18	Average Inventory Level	819.76				

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