

ACCOUNTRONIC SOFTWARE

Excel

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

ثُمَّ رُدُّوْا إِلَى اللَّهِ مَوْلَاهُمْ الْحَقَّ ۚ لَا إِلَهَ إِلَّا لَهُ الْحُكْمُ وَهُوَ
أَسْرَعُ الْحَاسِبِينَ (الأنعام : 62)

صدق الله العظيم

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QBasic	(Objective Programming	

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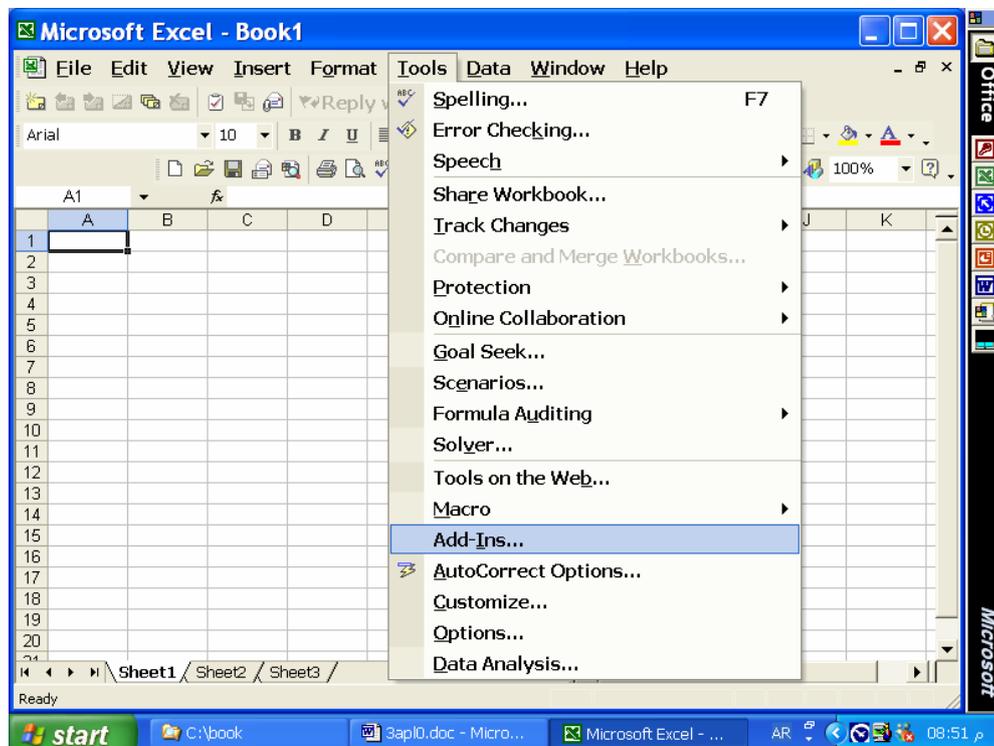
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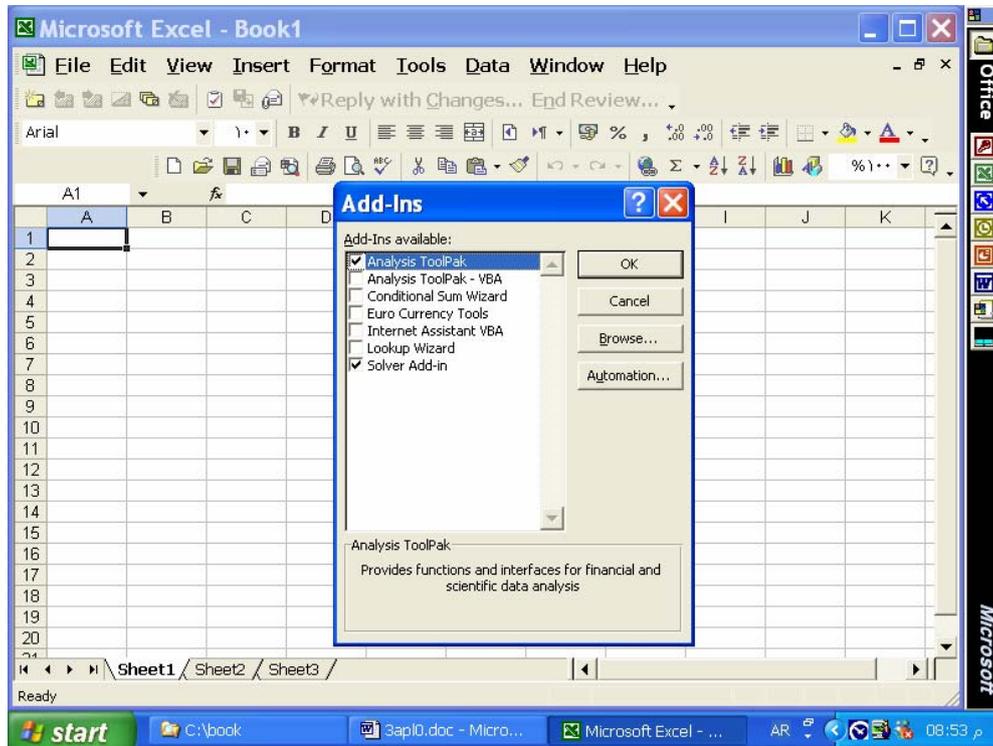
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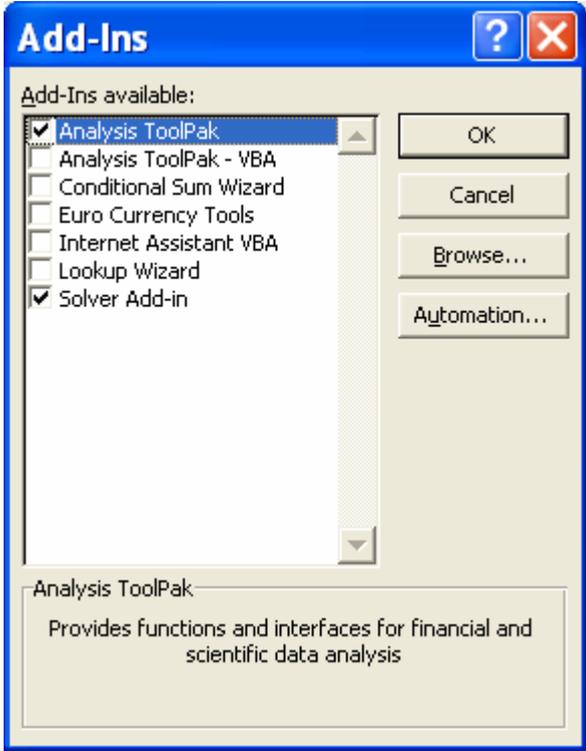
Solver

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Data Analysis (Analysis Solver
Tools ToolPak)
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: Solver Analysis ToolPak



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التطبيق الاول:

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Solver

Linear Programming (Maximization)

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التطبيق الاو :

Solver

Data File: LP1.xls

(Enter the next model parameters to excel worksheet and solve the model, data already entered to data file):

Max $10S + 9D$ (where S and D are standard and deluxe products, the function represents profit contribution)

Subject to (production requirements):

$.7S + 1D \leq 630$ (Cutting and Dyeing hours constraint)

$.5S + .833D \leq 600$ (Sewing production hours constraint)

$1S + .667D \leq 708$ (Finishing production hours constraint)

$.1S + .25 D \leq 135$ (Inspection and packaging hours constraint)

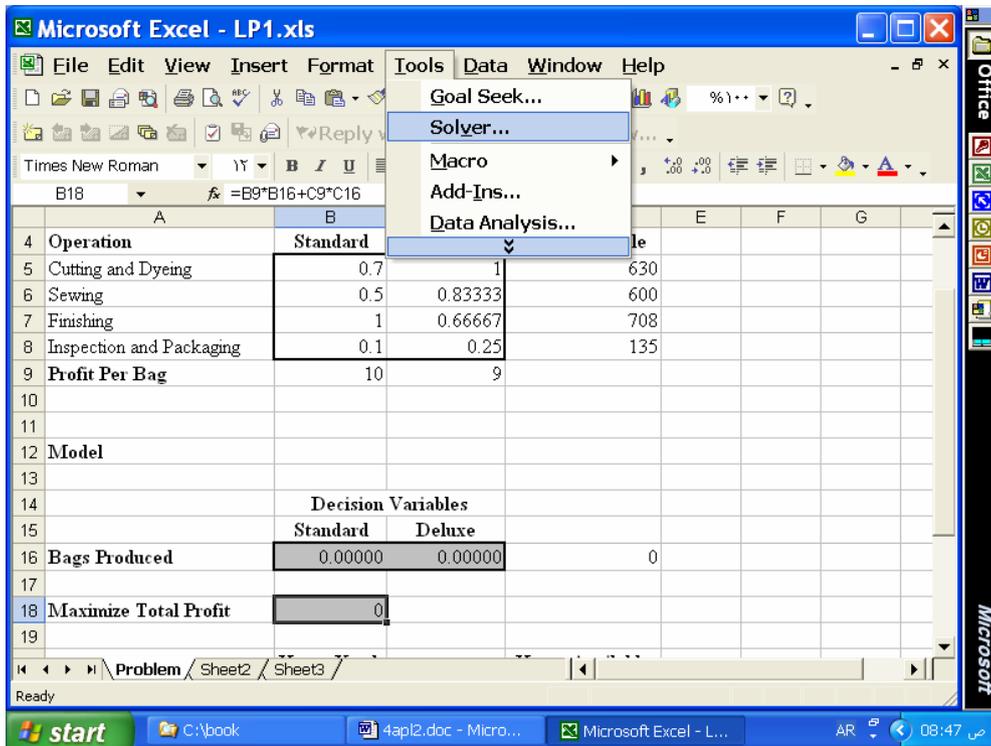
$S, D \geq 0$

1. Enter the problem in the top part of the worksheet: cells B5:C8 production requirements, cells B9:C9 profit contribution, cells D5:D8 available hours in each production department (RHS).
2. Specify cell locations for the decision variables. Cell B16 contains S unites produced and cell C16 contains D units produced.
3. Select cell B18 to enter the formula for computing the value of objective function: $B18 = B9 * B16 + C9 * C16$.
4. Select cells to enter formulas for computing the LHS of each constraint: Cell B21 = $B5 * B16 + C5 * C16$, B22 = $B6 * B16 + C6 * C16$,

The screenshot shows a Microsoft Excel spreadsheet with the following data:

Production Time			
Operation	Standard	Deluxe	Time Available
Cutting and Dyeing	0.7	1	630
Sewing	0.5	0.833333	600
Finishing	1	0.666667	708
Inspection and Packaging	0.1	0.25	135
Profit Per Bag	10	9	

Decision Variables			
	Standard	Deluxe	
Bags Produced	0.000000	0.000000	0



Solver

The screenshot shows the Microsoft Excel interface with a Solver Parameters dialog box open. The spreadsheet contains the following data:

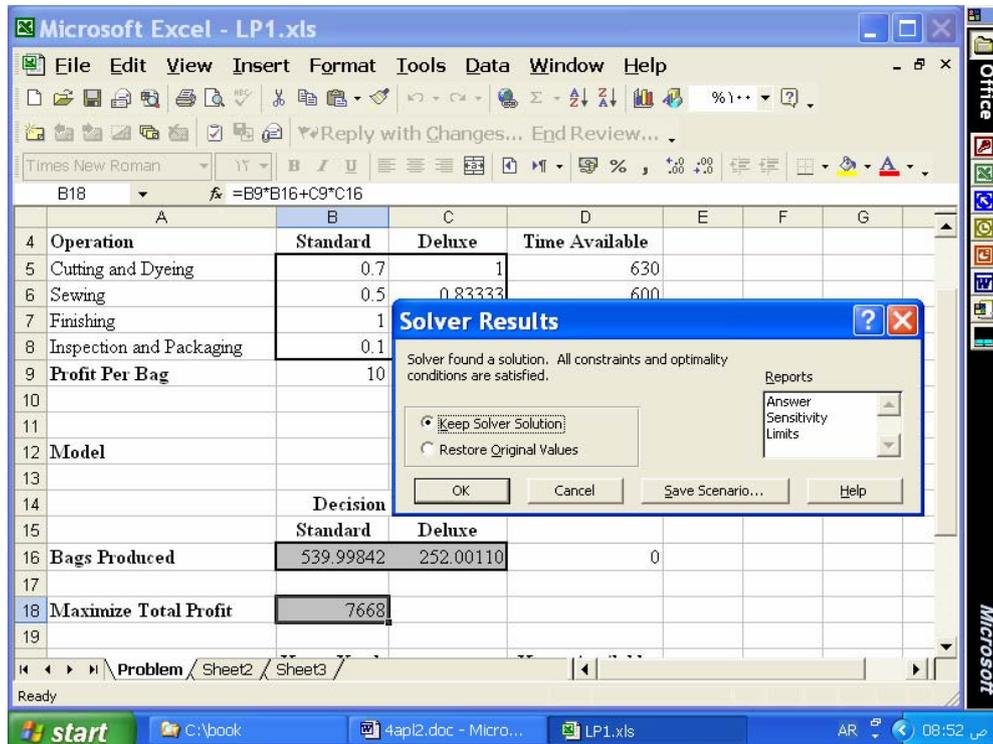
Operation	Standard	Deluxe	Time Available
Cutting and Dyeing	0.7	1	630
Sewing	0.5	0.83333	600
Finishing			
Inspection and Packaging			

The Solver Parameters dialog box is configured as follows:

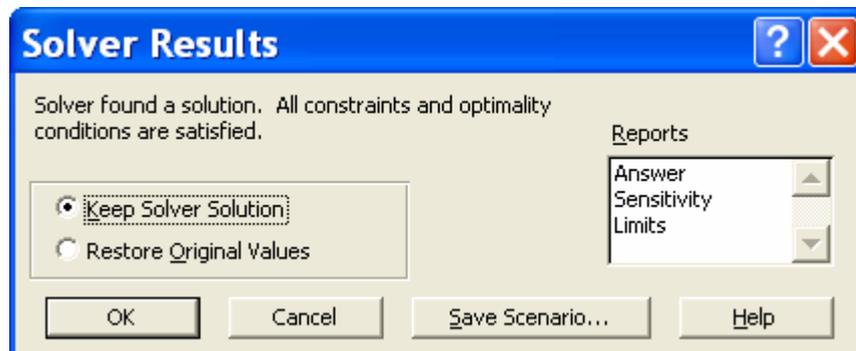
- Set Target Cell: $B9$ (Profit Per Bag)
- Equal To: Max Min Value of: 0
- By Changing Cells: $B16:C16$ (Bags Produced)
- Subject to the Constraints: $B21:B24 \leq D21:D24$ (Time Available)

This is a close-up view of the Solver Parameters dialog box. The configuration is identical to the previous image:

- Set Target Cell: $B18$
- Equal To: Max Min Value of: 0
- By Changing Cells: $B16:C16$
- Subject to the Constraints: $B21:B24 \leq D21:D24$



:OK



Decision Variables			
	Standard	Deluxe	
Bags Produced	539.99842	252.00110	0
Maximize Total Profit	7668		
Hours Used (LHS)		Hours Available (RHS)	
Cutting and Dyeing	630	<=	630
Sewing	479.99929	<=	600
Finishing	708	<=	708
Inspection and Packaging	117.00012	<=	135

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