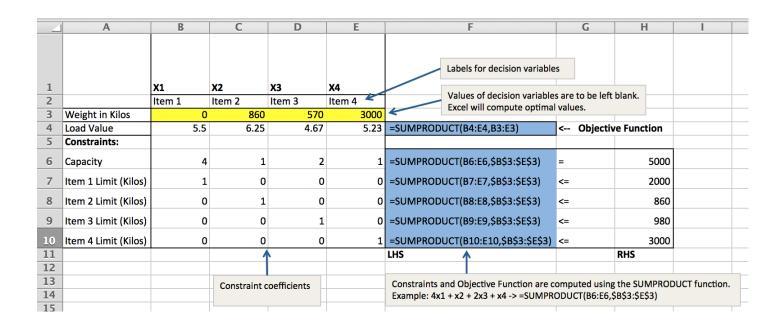


## 1 Linear Programming using Excel

## Input Linear Program into Excel

Decision Variables	Constraints
$\overline{x_1, x_2, x_3, x_4}$	$4x_1 + x_2 + 2x_3 + x_4 = 5000$
	$x_1 \le 2000$
Objective Function	$x_2 \le 860$
Maximize Profit:	$x_3 \le 980$
$P = 5.5x_1 + 6.25x_2 + 4.67x_3 + 5.23x_4$	$x_4 < 3000$



=SUMPRODUCT(B6:E6,\$B\$5:\$E\$5)

Note: Dollar sign forces absolute reference.

Drag the fill handle to copy down to other cells.

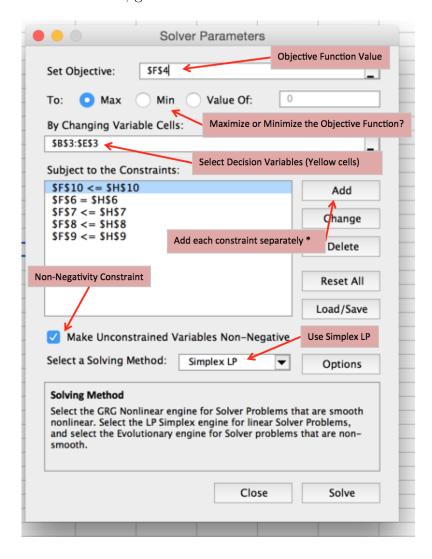
To use solver, flip to the back ——> Ok let's do this



## Solver

File  $\rightarrow$  Options  $\rightarrow$  Add-ins Pane  $\rightarrow$  Go  $\rightarrow$  select Solver Add-ins  $\rightarrow$  OK

To add Solver to Excel, go on Data menu and select Solver.



\*Note: When using solver, always select your SUMPRODUCT function, not the coefficients.