

Phone Survey Problem

Percentages	Landline	Cell Phone		Contacts	Made		Required
Young Women	8%	20%		Young Women	1500	>=	1500
Young Men	8%	18%		Young Men	1400	>=	1400
Older Women	20%	20%		Older Women	2250	>=	1100
Older Men	20%	18%		Older Men	2150	>=	1000
No Answer	44%	24%					
				Total cost	\$ 3,750.00		
Cost/call	\$ 0.20	\$ 0.50					
	Landline	Cell Phone					
Calls made	6250	5000					
		<=					
Max Cell Phone		5625					

Nil Simsek:
 $=($B$12*B2+$C$12*C2)$

Nil Simsek:
 $=B$9*B$12+$C$9*$C12

Nil Simsek:
 $=(B12+C12)/2$

Solver Parameters

Set Objective:

\$F\$7

To:

☐ Max

☒ Min

☐ Value Of:

0

By Changing Variable Cells:

\$B\$12:\$C\$12

Subject to the Constraints:

\$B\$12:\$C\$12 = integer

\$F\$2 >= \$H\$2

\$F\$3 >= \$H\$3

\$F\$4 >= \$H\$4

\$F\$5 >= \$H\$5

Add

Change

Delete

Reset All

Load/Save

☒ Make Unconstrained Variables Non-Negative

Select a Solving Method:

Simplex LP

Options

Solving Method

Select the GRG Nonlinear engine for Solver Problems that are smooth nonlinear. Select the LP Simplex engine for linear Solver Problems, and select the Evolutionary engine for Solver problems that are non-smooth.

Close

Solve

Funding a Pension Liability

[illegible]



Solver Parameters

Set Objective:

\$B\$3

To:



Max



Min



Value Of:

0

By Changing Variable Cells:

\$C\$3:\$E\$3,\$F\$7

Subject to the Constraints:

\$C\$3:\$E\$3 = integer

\$F\$7 >= \$H\$7

\$I\$7:\$I\$21 >= 0

Add

Change

Delete

Reset All

Load/Save



Make Unconstrained Variables Non-Negative

Select a Solving Method:

Simplex LP



Options

Solving Method

Select the GRG Nonlinear engine for Solver Problems that are smooth nonlinear. Select the LP Simplex engine for linear Solver Problems, and select the Evolutionary engine for Solver problems that are non-smooth.

Close

Solve