# Kevin Walker Crystal Almanzar

 $Max \cdot 154, +.254_2 +.084_3 +.104_4 +.204_5 +.054_6 +.174_7$ 5.+,

 $5l_{11} + 26l_{12} + 20l_{13} + 18l_{14} + 11l_{15} + 17l_{16} + 10l_{17} - 50Y_{1} \ge 1$   $18l_{21} + 11l_{22} + 5l_{23} + 12l_{24} + 16l_{25} + 15l_{26} + 26l_{27} - 50Y_{2} \ge 1$   $4l_{31} + 16l_{32} + 22l_{33} + 7l_{34} + 13l_{35} + 11l_{36} + 19l_{37} - 50Y_{3} \ge 1$   $12l_{41} + 8l_{42} + 4l_{43} + 18l_{44} + 9l_{45} + 22l_{46} + 14l_{47} - 50Y_{4} \ge 1$   $19l_{51} + 9l_{52} + 3l_{53} + 4l_{54} + 14l_{55} + 30l_{56} + 19l_{57} - 50Y_{5} \ge 1$   $6l_{61} + 15l_{62} + 21l_{63} + 8l_{64} + 17l_{65} + 20l_{66} + 11l_{67} - 50Y_{6} \ge 1$   $9l_{71} + 6l_{72} + 3l_{73} + 13l_{74} + 5l_{75} + 16l_{76} + 28l_{77} - 50Y_{7} \ge 1$ 

#Done | 14+ 12+ 13 = 1

#Done | 14+ 15 = 1

for each group | 16+ 17 = 1

for each group

Yx variable = 1 if group supports party platform, o if group does not support the party platform.

lij variable = 1 if category is chosen, 0 if category is not chosen.

$$\int_{11}^{11} - l_{21} = 0$$

Oone for each solution to a given issue to ensure that the same value is carried in each group's row.

#### **Results Analysis:**

The model that was developed for this example was concerned with the stances that should be taken by a political party in order to secure as much of the vote as possible. The objective function dictated these matters by containing the percentage of the voting public that each group represented. The three topics on which this would be tested were tax policies, social concerns, and entitlements. One option could be chosen from each heading in order to bring about the most votes in the party's favor. After running a very complex problem through Solver, we were given the results that would maximize the percent of voters that would vote for this political party with respect to a multitude of constraints. From these results, it would be recommended that the party run on the ideas of no taxation, support for social concerns, and reduce entitlement programs. If this is done, the candidate should attract 45% of the voting public to want to pick him for office. This is because by making these choices, the candidate has the full support of the fiscal conservatives and retirees, which make up the largest percentage of all voters.



**Group 1- Political Party Platform Problem** 

	Tax Pol.			Social Cond	erns	Entitlemen	ts
Category	No Taxes	Tax Rich	Tax All	Support	Oppose	Maintain	Reduce
Liberals	5	26	20	18	11	17	10
Fisc. Cons	18	11	5	12	16	15	26
AfricanAm	4	16	22	7	13	11	19
Hispanics	12	8	4	18	9	22	14
Retirees	19	9	3	4	14	30	19
Young	6	15	21	8	17	20	11
Women	9	6	3	13	5	16	28
	_	-					
	Liberals	Fisc. Cons	AfricanAm	Hispanics	Retirees	Young	Women
% of vote	0.15	0.25	0.08	0.1	0.2	0.05	0.17
			<b>1</b>	C.1			
0 11 1	0.45	Maximize t	ne percenta	age of the vo	oters that a	re in suppor	τ
Optimal	0.45		~				
Y1	Y2	Y3	Y4	Y5	Y6	Y7	111
0	1	0	0	1	0	0	1
112	113	114	115	116	117	121	122
0	0	0	1	0	1	1	0
123	124	125	126	127	131	132	133
0	0	1	0	1	1	0	0
134	135	136	137	141	142	143	144
0	1	0	1	1	0	0	0
145	146	147	151	152	153	154	155
1	0	1	1	0	0	0	1
156	157	161	162	163	164	165	166
0	1	1	0	0	0	1	0
167	171	172	173	174	175	176	177
1	1	0	0	0	1	0	1
Constraints	•						
26	>=	1		0	=	0	
10	>=	1		0	=	0	
36	>=	1		0	=	0	
35	>=	1		0	=	0	
2	>=	1		0	=	0	
34	>=,	1		0	=	0	
42	>=	1		0	=	0	
1	=	1		0	=	0	
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1	=	1	0	=	0	
1	=	1	0	=	0	
1	=	1	0	-	0	
1	=	1	0	=	0	
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**Microsoft Excel 14.0 Answer Report** 

Worksheet: [Political Party Platform.xlsx]Sheet1

Report Created: 11/19/2012 1:50:20 PM

Result: Solver found a solution. All Constraints and optimality conditions are satisfied.

**Solver Engine** 

**Engine: Simplex LP** 

Solution Time: 0.203 Seconds. Iterations: 10 Subproblems: 46

**Solver Options** 

Max Time Unlimited, Iterations Unlimited, Precision 0.000001, Use Automatic Scaling

Max Subproblems Unlimited, Max Integer Sols Unlimited, Integer Tolerance 1%, Assume NonNegative

### Objective Cell (Max)

Cell	Name	Original Value	Final Value					
••••								
\$B\$17	Optimal Liberals	0.45	0.45					
<b>ΣΡΣΤ</b> Ι	Optimal Liberals		0.43					

#### Variable Cells

Cell	Name	Original Value	Final Value Integer
\$A\$21	Y1	0	0 Binary
\$B\$21	Y2	1	1 Binary
\$C\$21	Y3	0	0 Binary
\$D\$21	Y4	0	0 Binary
\$E\$21	Y5	1	1 Binary
\$F\$21	Y6	0	0 Binary
\$G\$21	Y7	0	0 Binary
\$H\$21	l11	1	1 Binary
\$A\$23	l12	0	0 Binary
\$B\$23	l13	0	0 Binary
\$C\$23	l14	0	0 Binary
\$D\$23	l15	1	1 Binary
\$E\$23	l16	0	0 Binary
\$F\$23	l17	1	1 Binary
\$G\$23	l21	1	1 Binary
\$H\$23	122	0	0 Binary
\$A\$25	123	0	0 Binary
\$B\$25	124	0	0 Binary
\$C\$25	125	1	1 Binary
\$D\$25	126	. 0	0 Binary
\$E\$25	127	1	1 Binary
\$F\$25	l31	1	1 Binary
\$G\$25	132	0	0 Binary
\$H\$25	133	0	0 Binary
\$A\$27	<b>1</b> 34	0	0 Binary
\$B\$27	135	1	1 Binary

\$C\$27	136	0	0 Binary
\$D\$27	137	1	1 Binary
\$E\$27	l41	1	1 Binary
\$F\$27	142	0	0 Binary
\$G\$27	l43	0	0 Binary
\$H\$27	144	0	0 Binary
\$A\$29	l45	1	1 Binary
\$B\$29	146	0	0 Binary
\$C\$29	147	1	1 Binary
\$D\$29	l51	1	1 Binary
\$E\$29	l52	0	0 Binary
\$F\$29	153	0	0 Binary
\$G\$29	<b>I</b> 54	0	0 Binary
\$H\$29	l55	1	1 Binary
\$A\$31	l56	0	0 Binary
\$B\$31	l57	1	1 Binary
\$C\$31	l61	1	1 Binary
\$D\$31	l62	0	0 Binary
\$E\$31	l63	0	0 Binary
\$F\$31	l64	0	0 Binary
\$G\$31	l65	1	1 Binary
\$H\$31	l66	0	0 Binary
\$A\$33	167	1	1 Binary
\$B\$33	l71	1	1 Binary
\$C\$33	172	0	O Binary
\$D\$33	l73	0	O Binary
\$E\$33	174	0	0 Binary
\$F\$33	l75	1	1 Binary
\$G\$33	l76	0	O Binary
\$H\$33	l77	1	1 Binary
Control Contro			

## Constraints

Cell	Name	Cell Value	Formula	Status	Slack
\$A\$36	Constraints:	26	\$A\$36>=\$C\$36	Not Binding	25
\$A\$37	Constraints:	10	\$A\$37>=\$C\$37	Not Binding	9
\$A\$38	Constraints:	36	\$A\$38>=\$C\$38	Not Binding	35
\$A\$39	Constraints:	35	\$A\$39>=\$C\$39	Not Binding	34
\$A\$40	Constraints:	2	\$A\$40>=\$C\$40	Not Binding	1
\$A\$41	Constraints:	34	\$A\$41>=\$C\$41	Not Binding	33
\$A\$42	Constraints:	42	\$A\$42>=\$C\$42	Not Binding	41
\$A\$43	Constraints:	1	\$A\$43=\$C\$43	Binding	0
\$A\$44	Constraints:	1	\$A\$44=\$C\$44	Binding	0
\$A\$45	Constraints:	1	\$A\$45=\$C\$45	Binding	0
\$A\$46	Constraints:	1	\$A\$46=\$C\$46	Binding	0
\$A\$47	Constraints:	1	\$A\$47=\$C\$47	Binding	0

\$E\$36	>= 174		1 \$E\$36=\$G\$36	Binding	0
\$E\$37	>= 174		1 \$E\$37=\$G\$37	Binding	0
\$E\$38	>= 174		1 \$E\$38=\$G\$38	Binding	0
\$E\$39	>= 174		1 \$E\$39=\$G\$39	Binding	0
\$E\$40	>= 174		1 \$E\$40=\$G\$40	Binding	0
\$E\$41	>= 174		1 \$E\$41=\$G\$41	Binding	0
\$E\$42	>= 174		1 \$E\$42=\$G\$42	Binding	0
\$E\$43		0	1 \$E\$43=\$G\$43	Binding	0
\$E\$44		0	1 \$E\$44=\$G\$44	Binding	0
\$E\$45		0	1 \$E\$45=\$G\$45	Binding	0
\$E\$46		0	1 \$E\$46=\$G\$46	Binding	0
\$E\$47		0	1 \$E\$47=\$G\$47	Binding	0
\$E\$48	174		1 \$E\$48=\$G\$48	Binding	0
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