

## General Factorial Regression: GapA versus Blocks, VisitsA, FreqA, CentA, OFA

### Factor Information

Factor	Levels	Values
VisitsA	2	20, 30
FreqA	3	1.00, 1.33, 2.00
CentA	2	0, 1
OFA	3	1, 2, 3

### Analysis of Variance

Source	DF	Seq SS	Contribution	Adj SS	Adj MS	F-Value	P-Value
Model	13	106139	92.26%	106139	8164.6	53.18	0.000
Blocks	1	30	0.03%	30	30.1	0.20	0.659
Linear	6	97241	84.53%	97241	16206.9	105.57	0.000
VisitsA	1	8313	7.23%	8313	8313.4	54.15	0.000
FreqA	2	1792	1.56%	1792	895.9	5.84	0.005
CentA	1	1255	1.09%	1255	1255.3	8.18	0.006
OFA	2	85881	74.65%	85881	42940.3	279.72	0.000
2-Way Interactions	6	8868	7.71%	8868	1478.0	9.63	0.000
VisitsA*FreqA	2	1762	1.53%	1762	881.0	5.74	0.005
VisitsA*OFA	2	5980	5.20%	5980	2990.2	19.48	0.000
CentA*OFA	2	1126	0.98%	1126	562.8	3.67	0.032
Error	58	8904	7.74%	8904	153.5		
Total	71	115043	100.00%				

### Model Summary

S	R-sq	R-sq(adj)	PRESS	R-sq(pred)
12.3901	92.26%	90.53%	13721.0	88.07%

### Regression Equation

GapA = 52.64 - 10.75 VisitsA\_20 + 10.75 VisitsA\_30 + 2.79 FreqA\_1.00 + 4.22 FreqA\_1.33  
 - 7.01 FreqA\_2.00 + 4.18 CentA\_0 - 4.18 CentA\_1 + 44.82 OFA\_1 - 5.59 OFA\_2  
 - 39.22 OFA\_3 - 1.70 VisitsA\*FreqA\_20 1.00 + 6.73 VisitsA\*FreqA\_20 1.33  
 - 5.03 VisitsA\*FreqA\_20 2.00 + 1.70 VisitsA\*FreqA\_30 1.00 - 6.73 VisitsA\*FreqA\_30  
 1.33  
 + 5.03 VisitsA\*FreqA\_30 2.00 + 8.20 VisitsA\*OFA\_20 1 - 12.71 VisitsA\*OFA\_20 2  
 + 4.51 VisitsA\*OFA\_20 3 - 8.20 VisitsA\*OFA\_30 1 + 12.71 VisitsA\*OFA\_30 2  
 - 4.51 VisitsA\*OFA\_30 3 - 1.63 CentA\*OFA\_0 1 - 3.81 CentA\*OFA\_0 2  
 + 5.45 CentA\*OFA\_0 3  
 + 1.63 CentA\*OFA\_1 1 + 3.81 CentA\*OFA\_1 2 - 5.45 CentA\*OFA\_1 3

## General Factorial Regression: GapB versus Blocks, VisitsB, FreqB, Cent, OF

### Factor Information

Factor	Levels	Values
VisitsB	4	12, 20, 40, 60
FreqB	3	1.00000, 1.33333, 2.00000
Cent	2	0, 1
OF	3	1, 2, 3

### Analysis of Variance

Source	DF	Seq SS	Contribution	Adj SS	Adj MS	F-Value	P-Value
Model	25	234664	87.55%	234664	9386.6	33.18	0.000
Blocks	1	327	0.12%	327	326.6	1.15	0.285
Linear	8	197524	73.69%	197524	24690.5	87.27	0.000
VisitsB	3	91111	33.99%	91111	30370.4	107.35	0.000
FreqB	2	12940	4.83%	12940	6469.8	22.87	0.000
Cent	1	952	0.36%	952	952.2	3.37	0.069
OF	2	92521	34.52%	92521	46260.6	163.52	0.000
2-Way Interactions	16	36813	13.73%	36813	2300.8	8.13	0.000
VisitsB*FreqB	6	9639	3.60%	9639	1606.4	5.68	0.000
VisitsB*OF	6	21499	8.02%	21499	3583.2	12.67	0.000
FreqB*OF	4	5676	2.12%	5676	1418.9	5.02	0.001
Error	118	33383	12.45%	33383	282.9		
Total	143	268047	100.00%				

### Model Summary

S	R-sq	R-sq(adj)	PRESS	R-sq(pred)
16.8198	87.55%	84.91%	49714.9	81.45%

### Regression Equation

GapB = 45.95 - 33.31 VisitsB\_12 - 15.05 VisitsB\_20 + 20.63 VisitsB\_40 + 27.73 VisitsB\_60  
+ 11.81 FreqB\_1.00000 - 0.41 FreqB\_1.33333 - 11.40 FreqB\_2.00000 + 2.57 Cent\_0  
- 2.57 Cent\_1 + 31.13 OF\_1 - 0.17 OF\_2 - 30.96 OF\_3 + 13.47 VisitsB\*FreqB\_12  
1.00000  
- 12.23 VisitsB\*FreqB\_12 1.33333 - 1.24 VisitsB\*FreqB\_12 2.00000  
+ 5.07 VisitsB\*FreqB\_20 1.00000 + 6.10 VisitsB\*FreqB\_20 1.33333  
- 11.18 VisitsB\*FreqB\_20 2.00000 - 10.14 VisitsB\*FreqB\_40 1.00000  
+ 1.69 VisitsB\*FreqB\_40 1.33333 + 8.45 VisitsB\*FreqB\_40 2.00000  
- 8.40 VisitsB\*FreqB\_60 1.00000 + 4.43 VisitsB\*FreqB\_60 1.33333  
+ 3.97 VisitsB\*FreqB\_60 2.00000 - 10.44 VisitsB\*OF\_12 1 - 7.88 VisitsB\*OF\_12 2  
+ 18.32 VisitsB\*OF\_12 3 + 12.96 VisitsB\*OF\_20 1 - 19.10 VisitsB\*OF\_20 2  
+ 6.14 VisitsB\*OF\_20 3 + 2.29 VisitsB\*OF\_40 1 + 10.14 VisitsB\*OF\_40 2  
- 12.43 VisitsB\*OF\_40 3 - 4.82 VisitsB\*OF\_60 1 + 16.84 VisitsB\*OF\_60 2  
- 12.03 VisitsB\*OF\_60 3 + 11.11 FreqB\*OF\_1.00000 1 - 2.47 FreqB\*OF\_1.00000 2  
- 8.63 FreqB\*OF\_1.00000 3 - 1.67 FreqB\*OF\_1.33333 1 - 1.65 FreqB\*OF\_1.33333 2  
+ 3.32 FreqB\*OF\_1.33333 3 - 9.44 FreqB\*OF\_2.00000 1 + 4.12 FreqB\*OF\_2.00000 2  
+ 5.32 FreqB\*OF\_2.00000 3

Equation averaged over blocks.