
```
name: <unnamed>
log: /Users/codydehaan/Desktop/Lower_Buffet_Prices.smcl
log type: text
opened on: 24 Apr 2017, 20:21:32

. import delimited "/Users/codydehaan/Desktop/PizzaStudy.txt" //importing the data
(30 vars, 139 obs)

.
. //Labeling the variables
. label variable treatment "The manipulation group"

. label define treatment1 1 "$4" 2 "$8"

. label value treatment treatment1

. label variable pieces "How many pieces of pizza did you eat today?"

. label variable gender "Gender"

. label define gender1 1 "Male" 2 "Female"

. label value gender gender1

. label variable slice_cond "Condition based on pieces"

. label define slice_cond1 1 "1 piece" 2 "2 pieces" 3 "3 pieces"

. label value slice_cond slice_cond1

. label variable genderd "Gender"

. label define gender2 1 "Male" 0 "Female"

. label value genderd gender2

. label variable taste_general "The pizza, in general, tasted really great"

. label variable taste_first "The first piece of pizza I ate tasted really great"
```

```
. label variable sat_first "The first piece of pizza I ate was very satisfying"

. label variable enj_first "The first piece of pizza I ate was very enjoyable"

. label variable taste_middle "The middle piece of pizza I ate tasted really great"

. label variable sat_middle "The middle piece of pizza I ate was very satisfying"

. label variable enj_middle "The middle piece of pizza I ate was very enjoyable"

. label variable taste_last "The last piece of pizza I ate tasted really great"

. label variable sat_last "The last piece of pizza I ate was very satisfying"

. label variable enj_last "The last piece of pizza I ate was very enjoyable"

. label variable ate_more_pizza "I ate more pizza than I should have"

. label variable was_hungry "I was very hungry when I came in"

. label variable am_hungry "I am hungry now"

. label variable feel_guilty "I feel guilty about how much I ate"

. label variable physic_uncomf "I am physically uncomfortable"

. label variable overate "I overate"

. label variable ate_more_general "I ate more than I should have"

. label variable felt_rushed "I felt rushed"

. label variable salad "Mark the amount of salad you ate (continuous rating scale)"

. label variable calories "The amount of calories that participants thought they ate"

. label variable mixedgroup "The type of group"

. label define yes_no 1 "Yes" 0 "No"

. label value mixedgroup yes_no
```

```

. label variable male_1 "An indicator that there are multiple males in a mixed-sex groups"

. label define male_1d 1 "Male, and the only male in mixed-sex group" 0 "Male, and in a mixed-sex group with at least
> one other male"

. label value male_1 male_1d

. label variable id "The ID of participants for reshaping the data"

. label variable mmff "The type of groups"

. label define mmff1 1 "Males eating with females" 2 "Males eating with males" 3 "Females eating with males" 4 "Femal
> es eating with females"

. label value mmff mmff1

. label variable group "Number of people in the group"

.
.
. ***** Table1 - Means and F-test results
. //The script for age, height and weight is commented because the respective data is removed to de-identify particip
> ants.
. //However the code-lines show how the averages are calculated
. /*
> label variable age "Age"
> label variable height_inch "Height in inches"
> label variable weight_lbs "Weight in pounds"
>
> tab treatment, sum (age)
> ttest age, by (treatment)
>
> tab treatment, sum (age)
> anova age treatment
>
> tab treatment if height_inch>8, sum (height_inch) // removing an outlier (more than 3 sigma)
> anova height_inch treatment if height_inch>8
>
> tab treatment if weight_lbs<450, sum (weight_lbs) // removing an outlier (more than 3 sigma)
> anova weight_lbs treatment if weight_lbs<450

```

```
> */
```

```
.
```

```
. tab treatment, sum (genderd)
```

The manipulation group	Summary of Gender		
	Mean	Std. Dev.	Freq.
\$4	.6	.49371044	65
\$8	.51470588	.50349961	68
Total	.55639098	.49868819	133

```
. anova genderd treatment
```

```
Number of obs =      133    R-squared      = 0.0074
Root MSE      =    .498741    Adj R-squared = -0.0002
```

Source	Partial SS	df	MS	F	Prob>F
Model	.24177355	1	.24177355	0.97	0.3260
treatment	.24177355	1	.24177355	0.97	0.3260
Residual	32.585294	131	.2487427		
Total	32.827068	132	.24868991		

```
.
```

```
. tab treatment, sum (group)
```

The manipulation group	Summary of Number of people in the group		
	Mean	Std. Dev.	Freq.
\$4	3.0307692	1.5203744	65
\$8	3.2794118	1.2911361	68
Total	3.1578947	1.4079972	133

```
. anova group treatment
```

Number of obs = 133 R-squared = 0.0079
 Root MSE = 1.4078 Adj R-squared = 0.0003

Source	Partial SS	df	MS	F	Prob>F
Model	2.0545725	1	2.0545725	1.04	0.3105
treatment	2.0545725	1	2.0545725	1.04	0.3105
Residual	259.62964	131	1.9819056		
Total	261.68421	132	1.9824561		

.
 . tab treatment, sum (was_hungry)

The manipulation n group	Summary of I came in Mean	was very hungry when I came in Std. Dev.	Freq.
\$4	6.6212121	1.8544346	66
\$8	6.6428571	2.0644381	70
Total	6.6323529	1.9581126	136

. anova was_hungry treatment

Number of obs = 136 R-squared = 0.0000
 Root MSE = 1.96538 Adj R-squared = -0.0074

Source	Partial SS	df	MS	F	Prob>F
Model	.01591546	1	.01591546	0.00	0.9489
treatment	.01591546	1	.01591546	0.00	0.9489
Residual	517.60173	134	3.8626995		
Total	517.61765	135	3.8342048		

```
.
. tab treatment, sum (am_hungry)
```

The manipulation n group	Mean	Std. Dev.	Freq.
Summary of I am hungry now			
\$4	1.880597	1.3430222	67
\$8	1.8484848	1.747459	66
Total	1.8646617	1.55106	133

```
. anova am_hungry treatment
```

```
Number of obs =      133    R-squared      =  0.0001
Root MSE      =      1.55688  Adj R-squared = -0.0075
```

Source	Partial SS	df	MS	F	Prob>F
Model	.03428517	1	.03428517	0.01	0.9055
treatment	.03428517	1	.03428517	0.01	0.9055
Residual	317.52962	131	2.4238903		
Total	317.56391	132	2.4057872		

```
.
. //Removing values for extra observations who ate only one or two pieces of pizza for Table 2
. //Counting the number of responses with different pieces of pizza consumption that should be removed
. egen nonmiss0 = rownonmiss(taste_general taste_first taste_middle taste_last enj_first enj_middle enj_last sat_firs
> t sat_middle sat_last)
```

```
. count if pieces == 0 & nonmiss0 != 0
4
```

```
.
. egen nonmiss1 = rownonmiss(taste_middle taste_last enj_middle enj_last sat_middle sat_last)
```

```
. count if pieces >0 & pieces <= 1 & nonmiss1 != 0
10
```

```

.
. egen nonmiss2 = rownonmiss(taste_middle enj_middle sat_middle)

. count if pieces > 1 & pieces <= 2 & nonmiss2 != 0
    21

.
. //who did not eat any pizza
. replace taste_general = . if pieces == 0
(3 real changes made, 3 to missing)

. replace taste_first = . if pieces == 0
(2 real changes made, 2 to missing)

. replace sat_first = . if pieces == 0
(2 real changes made, 2 to missing)

. replace enj_first = . if pieces == 0
(2 real changes made, 2 to missing)

. replace taste_middle = . if pieces == 0
(2 real changes made, 2 to missing)

. replace sat_middle = . if pieces == 0
(2 real changes made, 2 to missing)

. replace enj_middle = . if pieces == 0
(2 real changes made, 2 to missing)

. replace taste_last = . if pieces == 0
(2 real changes made, 2 to missing)

. replace sat_last = . if pieces == 0
(3 real changes made, 3 to missing)

. replace enj_last = . if pieces == 0
(2 real changes made, 2 to missing)

.
. //who ate only one piece

```

```

. replace taste_middle = . if pieces >0 & pieces <= 1 & pieces !=.
(9 real changes made, 9 to missing)

. replace sat_middle = . if pieces >0 & pieces <= 1 & pieces !=.
(9 real changes made, 9 to missing)

. replace enj_middle = . if pieces >0 & pieces <= 1 & pieces !=.
(8 real changes made, 8 to missing)

. replace taste_last = . if pieces >0 & pieces <= 1 & pieces !=.
(9 real changes made, 9 to missing)

. replace sat_last = . if pieces >0 & pieces <= 1 & pieces !=.
(9 real changes made, 9 to missing)

. replace enj_last = . if pieces >0 & pieces <= 1 & pieces !=.
(9 real changes made, 9 to missing)

.
. //who ate two pieces
. replace taste_middle = . if pieces > 1 & pieces <= 2 & pieces !=.
(20 real changes made, 20 to missing)

. replace sat_middle = . if pieces > 1 & pieces <= 2 & pieces !=.
(19 real changes made, 19 to missing)

. replace enj_middle = . if pieces > 1 & pieces <= 2 & pieces !=.
(20 real changes made, 20 to missing)

.
. ***** Table2 - Means and F-test results
. tab treatment, sum ( taste_general ) //general taste

```

The manipulation n group	Summary of The pizza, in general, tasted really great Mean	Std. Dev.	Freq.
\$4	6.9193548	1.3825421	62
\$8	7.5762712	1.416691	59
Total	7.2396694	1.4319264	121


```
. anova taste_general treatment
```

```

      Number of obs =      121    R-squared      = 0.0530
      Root MSE      =      1.39929  Adj R-squared = 0.0451

```

Source	Partial SS	df	MS	F	Prob>F
Model	13.046033	1	13.046033	6.66	0.0111
treatment	13.046033	1	13.046033	6.66	0.0111
Residual	233.00355	119	1.9580131		
Total	246.04959	120	2.0504132		

```
.
. tab treatment, sum ( taste_first )      //the first piece taste
```

The manipulation n group	Summary of The first piece of pizza I ate tasted really great		
	Mean	Std. Dev.	Freq.
\$4	7.0806452	1.2968864	62
\$8	7.5862069	1.4392308	58
Total	7.325	1.3851706	120

```
. anova taste_first treatment
```

```

      Number of obs =      120    R-squared      = 0.0335
      Root MSE      =      1.3675  Adj R-squared = 0.0254

```

Source	Partial SS	df	MS	F	Prob>F
Model	7.6592603	1	7.6592603	4.10	0.0452
treatment	7.6592603	1	7.6592603	4.10	0.0452
Residual	220.66574	118	1.8700486		

Total | 228.325 119 1.9186975

```
.
. tab treatment, sum ( sat_first )      //the first piece satisfaction
```

The Summary of The first piece of pizza			
manipulatio I ate was very satisfying			
n group	Mean	Std. Dev.	Freq.
-----+-----			
\$4	7.0833333	1.3690485	60
\$8	7.4736842	1.4893103	57
-----+-----			
Total	7.2735043	1.4361342	117

```
. anova sat_first treatment
```

Number of obs = 117 R-squared = 0.0186
 Root MSE = 1.42888 Adj R-squared = 0.0101

Source	Partial SS	df	MS	F	Prob>F
-----+-----					
Model	4.4540036	1	4.4540036	2.18	0.1424
treatment	4.4540036	1	4.4540036	2.18	0.1424
Residual	234.79386	115	2.0416857		
-----+-----					
Total	239.24786	116	2.0624816		

```
.
. tab treatment, sum ( enj_first )      //the first piece enjoyment
```

The Summary of The first piece of pizza			
manipulatio I ate was very enjoyable			
n group	Mean	Std. Dev.	Freq.
-----+-----			
\$4	7.05	1.3952097	60
\$8	7.5344828	1.5010583	58
-----+-----			
Total	7.2881356	1.4623579	118

```
. anova enj_first treatment
```

```
Number of obs =      118    R-squared      = 0.0277
Root MSE      = 1.44819    Adj R-squared = 0.0193
```

Source	Partial SS	df	MS	F	Prob>F
Model	6.9223553	1	6.9223553	3.30	0.0718
treatment	6.9223553	1	6.9223553	3.30	0.0718
Residual	243.28103	116	2.0972503		
Total	250.20339	117	2.1384905		

```
.
. tab treatment, sum ( taste_middle )    //the middle piece taste
```

The manipulation n group	Summary of The middle piece of pizza I ate tasted really great		
	Mean	Std. Dev.	Freq.
\$4	6.8333333	1.5788457	24
\$8	8.0588235	1.1440383	17
Total	7.3414634	1.5265935	41

```
. anova taste_middle treatment
```

```
Number of obs =      41    R-squared      = 0.1603
Root MSE      = 1.4167    Adj R-squared = 0.1388
```

Source	Partial SS	df	MS	F	Prob>F
Model	14.945002	1	14.945002	7.45	0.0095
treatment	14.945002	1	14.945002	7.45	0.0095
Residual	78.27451	39	2.0070387		
Total	93.219512	40	2.3304878		

```
.
. tab treatment, sum ( sat_middle )      //the middle piece satisfaction
```

The manipulation n group	Summary of The middle piece of pizza I ate was very satisfying		
	Mean	Std. Dev.	Freq.
\$4	6.8636364	1.6123173	22
\$8	7.9411765	1.1974237	17
Total	7.3333333	1.5275252	39

```
. anova sat_middle treatment
```

```
Number of obs =      39    R-squared      = 0.1256
Root MSE      = 1.44757    Adj R-squared = 0.1019
```

Source	Partial SS	df	MS	F	Prob>F
Model	11.134581	1	11.134581	5.31	0.0269
treatment	11.134581	1	11.134581	5.31	0.0269
Residual	77.532086	37	2.0954618		
Total	88.666667	38	2.3333333		

```
.
. tab treatment, sum ( enj_middle )      //the middle piece enjoyment
```

The manipulation n group	Summary of The middle piece of pizza I ate was very enjoyable		
	Mean	Std. Dev.	Freq.
\$4	6.7727273	1.6015415	22
\$8	7.8888889	1.1826634	18
Total	7.275	1.518898	40

```
. anova enj_middle treatment
```

Number of obs = 40 R-squared = 0.1371
 Root MSE = 1.4294 Adj R-squared = 0.1144

Source	Partial SS	df	MS	F	Prob>F
Model	12.333586	1	12.333586	6.04	0.0187
treatment	12.333586	1	12.333586	6.04	0.0187
Residual	77.641414	38	2.0431951		
Total	89.975	39	2.3070513		

```
.
. tab treatment, sum ( taste_last ) //the last piece taste
```

The manipulation	Summary of The last piece of pizza		
	I ate tasted really great		
n group	Mean	Std. Dev.	Freq.
\$4	6.0769231	2.0181364	39
\$8	7.6	1.3974767	35
Total	6.7972973	1.9015475	74

```
. anova taste_last treatment
```

Number of obs = 74 R-squared = 0.1621
 Root MSE = 1.75265 Adj R-squared = 0.1505

Source	Partial SS	df	MS	F	Prob>F
Model	42.790229	1	42.790229	13.93	0.0004
treatment	42.790229	1	42.790229	13.93	0.0004
Residual	221.16923	72	3.0717949		
Total	263.95946	73	3.615883		

```
.
. tab treatment, sum ( sat_last ) //the last piece satisfaction
```

The manipulation n group	Summary of The last piece of pizza I ate was very satisfying		
	Mean	Std. Dev.	Freq.
\$4	6.0540541	1.9992491	37
\$8	7.5142857	1.482673	35
Total	6.7638889	1.9025043	72

```
. anova sat_last treatment
```

```
Number of obs =      72    R-squared      = 0.1492
Root MSE      =    1.7673    Adj R-squared = 0.1371
```

Source	Partial SS	df	MS	F	Prob>F
Model	38.351362	1	38.351362	12.28	0.0008
treatment	38.351362	1	38.351362	12.28	0.0008
Residual	218.63475	70	3.1233536		
Total	256.98611	71	3.6195227		

```
.
. tab treatment, sum ( enj_last ) //the last piece enjoyment
```

The manipulation n group	Summary of The last piece of pizza I ate was very enjoyable		
	Mean	Std. Dev.	Freq.
\$4	5.8611111	1.9734347	36
\$8	7.4054054	1.5538386	37
Total	6.6438356	1.9247645	73

```
. anova enj_last treatment
```

Number of obs = 73 R-squared = 0.1631
 Root MSE = 1.77313 Adj R-squared = 0.1514

Source	Partial SS	df	MS	F	Prob>F
Model	43.515252	1	43.515252	13.84	0.0004
treatment	43.515252	1	43.515252	13.84	0.0004
Residual	223.22447	71	3.1440067		
Total	266.73973	72	3.7047184		

```
.
. ***** Table3 - ANOVA analysis by treatmetn and by the amount eaten
. /* The average ratings for taste, satisfaction and enjoyment were obtained by
> averaging the corresponding answers for all the pieces eaten. */
. //deleting the observations that had lower than three pieces of pizza consumption
. drop if pieces <3 | pieces ==.
(101 observations deleted)

.
. //Keeping only the data ereported in Table 3
. keep taste_first taste_middle taste_last sat_first sat_middle sat_last enj_first enj_middle enj_last treatment slic
> e_cond pieces id

.
. rename taste_first tastel

. rename taste_middle taste2

. rename taste_last taste3

. rename sat_first sat1

. rename sat_middle sat2

. rename sat_last sat3

. rename enj_first enj1
```

```

. rename enj_middle enj2

. rename enj_last enj3

.
. //reshaping the data for the test
. reshape long taste sat enj, i(id treatment slice_cond pieces) j(piece) //reshaping the data into a long form for r
> epeated sample ANOVA test
(note: j = 1 2 3)

```

Data	wide	->	long
Number of obs.	38	->	114
Number of variables	13	->	8
j variable (3 values)		->	piece
xij variables:			
	taste1 taste2 taste3	->	taste
	sat1 sat2 sat3	->	sat
	enj1 enj2 enj3	->	enj

```

.
. //Labeling newly created variables for long-shaped data
. label variable piece "The order for the first, middle, and last piece"

. label variable taste "The taste rating for the first, middle and last piece"

. label variable sat "The satisfaction rating for the first, middle and last piece"

. label variable enj "The enjoyment rating for the first, middle and last piece"

.
. **** Pizza taste evaluations
. tab treatment, sum (taste) //Effect of price paid

```

The manipulatio n group	Summary of The taste rating for the first, middle and last piece Mean	Std. Dev.	Freq.
\$4	6.9047619	1.5934775	63
\$8	8	1.1669199	48


```
-----+-----
Total | 7.3783784 1.5198927 111
```

```
. tab piece, sum (taste) //Effect of pieces consumed
```

```
The order |
for the |
first, | Summary of The taste rating for the
middle, and | first, middle and last piece
last piece | Mean Std. Dev. Freq.
-----+-----
1 | 7.7297297 1.261583 37
2 | 7.3243243 1.5102254 37
3 | 7.0810811 1.7220527 37
-----+-----
Total | 7.3783784 1.5198927 111
```

```
. tab treatment piece, sum(taste) //Effect of Price x Pieces
```

Means, Standard Deviations and Frequencies
of The taste rating for the first, middle and last piece

```
The | The order for the first,
manipulati | middle, and last piece
on group | 1 2 3 | Total
-----+-----+-----
$4 | 7.4285714 6.8095238 6.4761905 | 6.9047619
| 1.2873006 1.5690458 1.8060744 | 1.5934775
| 21 21 21 | 63
-----+-----+-----
$8 | 8.125 8 7.875 | 8
| 1.147461 1.1547005 1.2583057 | 1.1669199
| 16 16 16 | 48
-----+-----+-----
Total | 7.7297297 7.3243243 7.0810811 | 7.3783784
| 1.261583 1.5102254 1.7220527 | 1.5198927
| 37 37 37 | 111
```

```
. anova taste treatment / id|treatment piece treatment#piece /, repeated(piece) //Repeated sample ANOVA
```

Number of obs = 111 R-squared = 0.8937

Root MSE = .621333 Adj R-squared = 0.8329

Source	Partial SS	df	MS	F	Prob>F
Model	227.0843	40	5.6771075	14.71	0.0000
treatment	32.679537	1	32.679537	6.21	0.0176
id treatment	184.09524	35	5.2598639		
piece	6.6879022	2	3.3439511	8.66	0.0004
treatment#piece	2.3635779	2	1.1817889	3.06	0.0531
Residual	27.02381	70	.38605442		
Total	254.10811	110	2.3100737		

Between-subjects error term: id|treatment
 Levels: 37 (35 df)
 Lowest b.s.e. variable: id
 Covariance pooled over: treatment (for repeated variable)

Repeated variable: piece

Huynh-Feldt epsilon = 0.7857
 Greenhouse-Geisser epsilon = 0.7388
 Box's conservative epsilon = 0.5000

Source	df	F	Regular	H-F	G-G	Box
piece	2	8.66	0.0004	0.0013	0.0017	0.0057
treatment#piece	2	3.06	0.0531	0.0666	0.0699	0.0889
Residual	70					

.
 . **** Pizza satisfaction ratings
 . tab treatment, sum (sat) //Effect of price paid

| Summary of The satisfaction rating
 The | for the first, middle and last

manipulation group	Mean	piece Std. Dev.	Freq.
\$4	6.9285714	1.6388149	56
\$8	7.7916667	1.3362114	48
Total	7.3269231	1.5606963	104

. tab piece, sum (sat) //Effect of pieces consumed

The order for the first, middle, and last piece	Mean	Std. Dev.	Freq.
1	7.6285714	1.3522468	35
2	7.3142857	1.5101895	35
3	7.0294118	1.7835153	34
Total	7.3269231	1.5606963	104

. tab treatment piece, sum(sat) //Effect of Price x Pieces

Means, Standard Deviations and Frequencies
of The satisfaction rating for the first, middle and last piece

The manipulation group	The order for the first, middle, and last piece	1	2	3	Total
\$4		7.5263158	6.8421053	6.3888889	6.9285714
		1.2635233	1.6077299	1.8830166	1.6388149
		19	19	18	56
\$8		7.75	7.875	7.75	7.7916667
		1.4832397	1.2041595	1.3904436	1.3362114
		16	16	16	48
Total		7.6285714	7.3142857	7.0294118	7.3269231
		1.3522468	1.5101895	1.7835153	1.5606963

| 35 35 34 | 104

. anova sat treatment / id|treatment piece treatment#piece /, repeated(piece) //Repeated sample ANOVA

Number of obs = 104 R-squared = 0.9045
Root MSE = .607255 Adj R-squared = 0.8486

Source	Partial SS	df	MS	F	Prob>F
Model	226.91532	38	5.9714557	16.19	0.0000
treatment	18.917794	1	18.917794	3.20	0.0830
id treatment	195.32164	33	5.9188375		
piece	5.0860239	2	2.5430119	6.90	0.0019
treatment#piece	5.5129146	2	2.7564573	7.47	0.0012
Residual	23.969298	65	.36875843		
Total	250.88462	103	2.435773		

Between-subjects error term: id|treatment

Levels: 35 (33 df)

Lowest b.s.e. variable: id

Covariance pooled over: treatment (for repeated variable)

Repeated variable: piece

Huynh-Feldt epsilon = 0.6592
Greenhouse-Geisser epsilon = 0.6265
Box's conservative epsilon = 0.5000

Source	df	F	Regular	H-F	G-G	Box
piece	2	6.90	0.0019	0.0071	0.0080	0.0131
treatment#piece	2	7.47	0.0012	0.0051	0.0058	0.0100
Residual	65					

```
. **** Pizza enjoyment ratings
. tab treatment, sum (enj) //Effect of price paid
```

The manipulation group	Summary of The enjoyment rating for the first, middle and last piece		
	Mean	Std. Dev.	Freq.
\$4	6.8214286	1.5966686	56
\$8	7.7843137	1.30098	51
Total	7.2803738	1.5344742	107

```
. tab piece, sum (enj) //Effect of pieces consumed
```

The order for the first, middle, and last piece	Summary of The enjoyment rating for the first, middle and last piece		
	Mean	Std. Dev.	Freq.
1	7.6944444	1.2608261	36
2	7.25	1.5	36
3	6.8857143	1.7451012	35
Total	7.2803738	1.5344742	107

```
. tab treatment piece, sum(enj) //Effect of Price x Pieces
```

Means, Standard Deviations and Frequencies
of The enjoyment rating for the first, middle and last piece

The manipulation on group	The order for the first, middle, and last piece			Total
	1	2	3	
\$4	7.5789474	6.7368421	6.1111111	6.8214286
	1.1212983	1.5931138	1.7452082	1.5966686
	19	19	18	56
\$8	7.8235294	7.8235294	7.7058824	7.7843137
	1.4245742	1.1850788	1.3585243	1.30098

	17	17	17	51
Total	7.6944444	7.25	6.8857143	7.2803738
	1.2608261	1.5	1.7451012	1.5344742
	36	36	35	107

. anova enj treatment / id|treatment piece treatment#piece /, repeated(piece) //Repeated sample ANOVA

Number of obs = 107 R-squared = 0.9076
Root MSE = .586786 Adj R-squared = 0.8538

Source	Partial SS	df	MS	F	Prob>F
Model	226.51953	39	5.808193	16.87	0.0000
treatment	23.537297	1	23.537297	4.41	0.0432
id treatment	181.4949	34	5.3380852		
piece	9.7561387	2	4.8780694	14.17	0.0000
treatment#piece	7.1656625	2	3.5828313	10.41	0.0001
Residual	23.069258	67	.34431729		
Total	249.58879	106	2.3546112		

Between-subjects error term: id|treatment

Levels: 36 (34 df)

Lowest b.s.e. variable: id

Covariance pooled over: treatment (for repeated variable)

Repeated variable: piece

Huynh-Feldt epsilon = 0.6961
Greenhouse-Geisser epsilon = 0.6597
Box's conservative epsilon = 0.5000

Source	df	F	Prob > F			
			Regular	H-F	G-G	Box
piece	2	14.17	0.0000	0.0001	0.0002	0.0006
treatment#piece	2	10.41	0.0001	0.0008	0.0010	0.0028

```

.
.
. ***Table 4 - Corrected Statistical Results Appearing in the Text
. ***The F statistics for the next two tables were derived from the following output tables
. ***Specifically, the F and p values for the first panel of Table 4 were derived from the row corresponding to "piec
> e" as the source of the variation.
. ***The F and p values for the second panel of Table 4 were derived from the row corresponding to "treatment#piece"
> as the source of the variation.
. ***** Taste - in text results
. anova taste treatment / id|treatment piece treatment#piece / if (piece == 1 | piece ==2), repeated(piece) //first
> and second pieces

```

```

Number of obs =      74    R-squared      = 0.9133
Root MSE      =    .594046  Adj R-squared = 0.8192

```

Source	Partial SS	df	MS	F	Prob>F
Model	130.09476	38	3.4235462	9.70	0.0000
treatment	16.166184	1	16.166184	5.15	0.0295
id treatment	109.77976	35	3.1365646		
piece	2.5136744	1	2.5136744	7.12	0.0115
treatment#piece	1.108269	1	1.108269	3.14	0.0851
Residual	12.35119	35	.35289116		
Total	142.44595	73	1.9513143		

```

Between-subjects error term: id|treatment
Levels: 37 (35 df)
Lowest b.s.e. variable: id
Covariance pooled over: treatment (for repeated variable)

```

Repeated variable: piece

```

Huynh-Feldt epsilon      = 1.0294
*Huynh-Feldt epsilon reset to 1.0000

```

Greenhouse-Geisser epsilon = 1.0000
Box's conservative epsilon = 1.0000

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	7.12	0.0115	0.0115	0.0115	0.0115
treatment#piece	1	3.14	0.0851	0.0851	0.0851	0.0851
Residual	35					

```
. anova taste treatment / id|treatment piece treatment#piece / if (piece == 1 | piece ==3), repeated(piece) //first
> and third pieces
```

Number of obs = 74 R-squared = 0.8779
Root MSE = .774157 Adj R-squared = 0.7454

Source	Partial SS	df	MS	F	Prob>F
Model	150.86165	38	3.9700434	6.62	0.0000
treatment	19.933076	1	19.933076	5.77	0.0217
id treatment	120.90476	35	3.4544218		
piece	6.5643501	1	6.5643501	10.95	0.0022
treatment#piece	2.2400257	1	2.2400257	3.74	0.0613
Residual	20.97619	35	.59931973		
Total	171.83784	73	2.353943		

Between-subjects error term: id|treatment
Levels: 37 (35 df)
Lowest b.s.e. variable: id
Covariance pooled over: treatment (for repeated variable)

Repeated variable: piece

Huynh-Feldt epsilon = 1.0294
*Huynh-Feldt epsilon reset to 1.0000
Greenhouse-Geisser epsilon = 1.0000

Box's conservative epsilon = 1.0000

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	10.95	0.0022	0.0022	0.0022	0.0022
treatment#piece	1	3.74	0.0613	0.0613	0.0613	0.0613
Residual	35					

```
. anova taste treatment / id|treatment piece treatment#piece / if (piece == 2 | piece ==3), repeated(piece) //second
> and third pieces
```

Number of obs = 74 R-squared = 0.9621
 Root MSE = .45382 Adj R-squared = 0.9209

Source	Partial SS	df	MS	F	Prob>F
Model	182.75113	38	4.8092402	23.35	0.0000
treatment	30.441602	1	30.441602	7.06	0.0118
id treatment	151.01786	35	4.3147959		
piece	.95382883	1	.95382883	4.63	0.0384
treatment#piece	.19707207	1	.19707207	0.96	0.3347
Residual	7.2083333	35	.20595238		
Total	189.95946	73	2.6021844		

Between-subjects error term: id|treatment
 Levels: 37 (35 df)
 Lowest b.s.e. variable: id
 Covariance pooled over: treatment (for repeated variable)

Repeated variable: piece

Huynh-Feldt epsilon = 1.0294
 *Huynh-Feldt epsilon reset to 1.0000
 Greenhouse-Geisser epsilon = 1.0000
 Box's conservative epsilon = 1.0000

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	4.63	0.0384	0.0384	0.0384	0.0384
treatment#piece	1	0.96	0.3347	0.3347	0.3347	0.3347
Residual	35					

```
.
. ***** Satisfaction - in text results
. anova sat treatment / id|treatment piece treatment#piece / if (piece == 1 | piece ==2), repeated(piece) //first and
> second pieces
```

```
Number of obs =          70    R-squared      = 0.9369
Root MSE      =    .520129    Adj R-squared = 0.8680
```

Source	Partial SS	df	MS	F	Prob>F
Model	132.51523	36	3.6809785	13.61	0.0000
treatment	6.8573308	1	6.8573308	1.87	0.1808
id treatment	121.08553	33	3.6692584		
piece	1.3580827	1	1.3580827	5.02	0.0319
treatment#piece	2.843797	1	2.843797	10.51	0.0027
Residual	8.9276316	33	.27053429		
Total	141.44286	69	2.0498965		

```
Between-subjects error term: id|treatment
Levels: 35 (33 df)
Lowest b.s.e. variable: id
Covariance pooled over: treatment (for repeated variable)
```

```
Repeated variable: piece
```

```
Huynh-Feldt epsilon      = 1.0312
*Huynh-Feldt epsilon reset to 1.0000
Greenhouse-Geisser epsilon = 1.0000
```

Box's conservative epsilon = 1.0000

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	5.02	0.0319	0.0319	0.0319	0.0319
treatment#piece	1	10.51	0.0027	0.0027	0.0027	0.0027
Residual	33					

```
. anova sat treatment / id|treatment piece treatment#piece / if (piece == 1 | piece ==3), repeated(piece) //first and
> third pieces
```

Number of obs = 69 R-squared = 0.8795
 Root MSE = .807947 Adj R-squared = 0.7439

Source	Partial SS	df	MS	F	Prob>F
Model	152.44444	36	4.2345679	6.49	0.0000
treatment	10.28693	1	10.28693	2.61	0.1158
id treatment	130.12573	33	3.943204		
piece	5.2287582	1	5.2287582	8.01	0.0080
treatment#piece	5.2287582	1	5.2287582	8.01	0.0080
Residual	20.888889	32	.65277778		
Total	173.33333	68	2.5490196		

Between-subjects error term: id|treatment
 Levels: 35 (33 df)
 Lowest b.s.e. variable: id
 Covariance pooled over: treatment (for repeated variable)

Repeated variable: piece

Huynh-Feldt epsilon = 1.0312
 *Huynh-Feldt epsilon reset to 1.0000
 Greenhouse-Geisser epsilon = 1.0000
 Box's conservative epsilon = 1.0000

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	8.01	0.0080	0.0080	0.0080	0.0080
treatment#piece	1	8.01	0.0080	0.0080	0.0080	0.0080
Residual	32					

```
. anova sat treatment / id|treatment piece treatment#piece / if (piece == 2 | piece ==3), repeated(piece) //second an
> d third pieces
```

```
Number of obs =      69    R-squared      = 0.9673
Root MSE      =  .433514  Adj R-squared = 0.9305
```

Source	Partial SS	df	MS	F	Prob>F
Model	177.89915	36	4.9416432	26.29	0.0000
treatment	22.986641	1	22.986641	5.01	0.0321
id treatment	151.5402	33	4.5921274		
piece	1.1184641	1	1.1184641	5.95	0.0204
treatment#piece	.29493464	1	.29493464	1.57	0.2194
Residual	6.0138889	32	.18793403		
Total	183.91304	68	2.7046036		

```
Between-subjects error term: id|treatment
Levels: 35 (33 df)
Lowest b.s.e. variable: id
Covariance pooled over: treatment (for repeated variable)
```

```
Repeated variable: piece
```

```
Huynh-Feldt epsilon      = 1.0312
*Huynh-Feldt epsilon reset to 1.0000
Greenhouse-Geisser epsilon = 1.0000
Box's conservative epsilon = 1.0000
```

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	5.95	0.0204	0.0204	0.0204	0.0204
treatment#piece	1	1.57	0.2194	0.2194	0.2194	0.2194
Residual	32					

```
.
. ***** Enjoyment - in text results
. anova enj treatment / id|treatment piece treatment#piece / if (piece == 1 | piece ==2), repeated(piece) //first and
> second pieces
```

```
Number of obs =      72    R-squared      = 0.9256
Root MSE      =    .549416  Adj R-squared = 0.8446
```

Source	Partial SS	df	MS	F	Prob>F
Model	127.68129	37	3.4508456	11.43	0.0000
treatment	7.9506364	1	7.9506364	2.39	0.1312
id treatment	112.99381	34	3.3233473		
piece	3.1812865	1	3.1812865	10.54	0.0026
treatment#piece	3.1812865	1	3.1812865	10.54	0.0026
Residual	10.263158	34	.30185759		
Total	137.94444	71	1.9428795		

```
Between-subjects error term: id|treatment
Levels: 36 (34 df)
Lowest b.s.e. variable: id
Covariance pooled over: treatment (for repeated variable)
```

```
Repeated variable: piece
```

```
Huynh-Feldt epsilon      = 1.0303
*Huynh-Feldt epsilon reset to 1.0000
Greenhouse-Geisser epsilon = 1.0000
Box's conservative epsilon = 1.0000
```

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	10.54	0.0026	0.0026	0.0026	0.0026
treatment#piece	1	10.54	0.0026	0.0026	0.0026	0.0026
Residual	34					

```
. anova enj treatment / id|treatment piece treatment#piece / if (piece == 1 | piece ==3), repeated(piece) //first and
> third pieces
```

```
Number of obs =      71    R-squared      = 0.8886
Root MSE      =    .759211  Adj R-squared = 0.7638
```

Source	Partial SS	df	MS	F	Prob>F
Model	151.76749	37	4.1018241	7.12	0.0000
treatment	13.547184	1	13.547184	3.92	0.0557
id treatment	117.38811	34	3.4525916		
piece	9.9216153	1	9.9216153	17.21	0.0002
treatment#piece	7.0644725	1	7.0644725	12.26	0.0014
Residual	19.021242	33	.57640127		
Total	170.78873	70	2.439839		

```
Between-subjects error term: id|treatment
Levels: 36 (34 df)
Lowest b.s.e. variable: id
Covariance pooled over: treatment (for repeated variable)
```

```
Repeated variable: piece
```

```
Huynh-Feldt epsilon      = 1.0303
*Huynh-Feldt epsilon reset to 1.0000
Greenhouse-Geisser epsilon = 1.0000
Box's conservative epsilon = 1.0000
```

Source	df	F	----- Prob > F -----			
			Regular	H-F	G-G	Box
piece	1	17.21	0.0002	0.0002	0.0002	0.0002
treatment#piece	1	12.26	0.0014	0.0014	0.0014	0.0014
Residual	33					

```
. anova enj treatment / id|treatment piece treatment#piece / if (piece == 2 | piece ==3), repeated(piece) //second an
> d third pieces
```

```
Number of obs =      71    R-squared      = 0.9722
Root MSE      =  .394368  Adj R-squared = 0.9410
```

Source	Partial SS	df	MS	F	Prob>F
Model	179.51553	37	4.8517712	31.20	0.0000
treatment	28.553049	1	28.553049	6.73	0.0139
id treatment	144.32964	34	4.2449893		
piece	1.6676471	1	1.6676471	10.72	0.0025
treatment#piece	.63907563	1	.63907563	4.11	0.0508
Residual	5.1323529	33	.15552585		
Total	184.64789	70	2.637827		

```
Between-subjects error term: id|treatment
Levels: 36 (34 df)
Lowest b.s.e. variable: id
Covariance pooled over: treatment (for repeated variable)
```

```
Repeated variable: piece
```

```
Huynh-Feldt epsilon      = 1.0303
*Huynh-Feldt epsilon reset to 1.0000
Greenhouse-Geisser epsilon = 1.0000
Box's conservative epsilon = 1.0000
```

```
----- Prob > F -----
```

Source	df	F	Regular	H-F	G-G	Box
piece	1	10.72	0.0025	0.0025	0.0025	0.0025
treatment#piece	1	4.11	0.0508	0.0508	0.0508	0.0508
Residual	33					

```

.
. //Figure 1 numbers are also driven from the above data
.
.
. log close //closing the log
  name: <unnamed>
  log: /Users/codydehaan/Desktop/Lower_Buffet_Prices.smcl
  log type: text
closed on: 24 Apr 2017, 20:21:33

```