The UNIVARIATE Procedure
Variable: f1

Moments			
N	86	Sum Weights	86
Mean	6.59302326	Sum Observations	567
Std Deviation	1.70382205	Variance	2.90300958
Skewness	-0.4040693	Kurtosis	-0.3833494
Uncorrected SS	3985	Corrected SS	246.755814
Coeff Variation	25.8428036	Std Error Mean	0.18372786

Basic Statistical Measures			
Location		Variability	
Mean	6.593023	Std Deviation	1.70382
Median	6.500000	Variance	2.90301
Mode	6.000000	Range	7.00000
		Interquartile Range	2.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	35.88472	Pr > |t|	<.0001
Sign	M	43	Pr >= |M|	<.0001
Signed Rank	S	1870.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.0
99%	9.0
95%	9.0
90%	9.0
75% Q3	8.0
50% Median	6.5
25% Q1	6.0
10%	4.0
5%	4.0
1%	2.0
0% Min	2.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	83	9	16
3	72	9	25
3	68	9	29
3	28	9	31
4	87	9	35

Missing Values			
Missing Value	Count	Percent Of	
		All Obs	Missing Obs
.	1	1.15	100.00

The UNIVARIATE Procedure
Variable: f2

Moments			
N	87	Sum Weights	87
Mean	6.55172414	Sum Observations	570
Std Deviation	1.65486331	Variance	2.73857257
Skewness	-0.6524158	Kurtosis	0.50343961
Uncorrected SS	3970	Corrected SS	235.517241
Coeff Variation	25.25844	Std Error Mean	0.17741997

Basic Statistical Measures			
Location		Variability	
Mean	6.551724	Std Deviation	1.65486
Median	7.000000	Variance	2.73857
Mode	7.000000	Range	8.00000
		Interquartile Range	2.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	36.92777	Pr > |t|	<.0001
Sign	M	43.5	Pr >= |M|	<.0001
Signed Rank	S	1914	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9
99%	9
95%	9
90%	9
75% Q3	8
50% Median	7
25% Q1	6
10%	4
5%	4
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	83	9	13
3	68	9	14
3	64	9	16
3	28	9	25
4	86	9	35

The UNIVARIATE Procedure
Variable: f3

Moments			
N	86	Sum Weights	86
Mean	6.30232558	Sum Observations	542

Moments			
Std Deviation	1.71546439	Variance	2.94281806
Skewness	-0.2701982	Kurtosis	-0.6872869
Uncorrected SS	3666	Corrected SS	250.139535
Coeff Variation	27.2195456	Std Error Mean	0.18498328

Basic Statistical Measures			
Location		Variability	
Mean	6.302326	Std Deviation	1.71546
Median	6.000000	Variance	2.94282
Mode	6.000000	Range	6.00000
		Interquartile Range	3.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	34.0697	Pr > |t|	<.0001
Sign	M	43	Pr >= |M|	<.0001
Signed Rank	S	1870.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9
99%	9
95%	9
90%	9
75% Q3	8
50% Median	6
25% Q1	5
10%	4
5%	3
1%	3
0% Min	3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	84	9	13
3	83	9	14
3	72	9	16
3	70	9	25
3	68	9	35

Missing Values			
Missing Value	Count	Percent Of	
		All Obs	Missing Obs
.	1	1.15	100.00

The UNIVARIATE Procedure
Variable: f4

Moments			
N	87	Sum Weights	87

Moments			
Mean	5.63218391	Sum Observations	490
Std Deviation	2.01802887	Variance	4.07244052
Skewness	-0.0973318	Kurtosis	-0.7339927
Uncorrected SS	3110	Corrected SS	350.229885
Coeff Variation	35.8303085	Std Error Mean	0.2163554

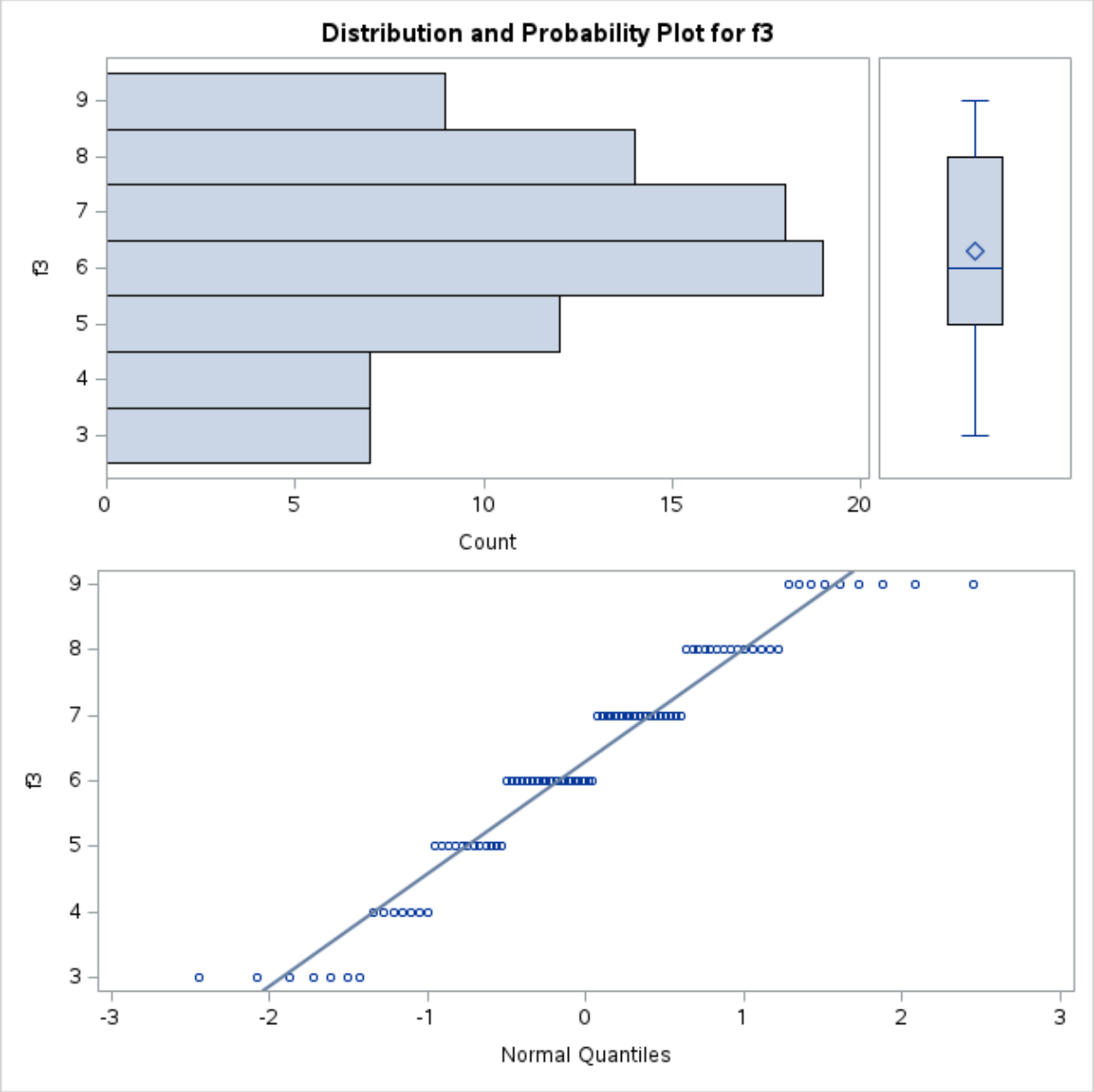
Basic Statistical Measures			
Location		Variability	
Mean	5.632184	Std Deviation	2.01803
Median	6.000000	Variance	4.07244
Mode	6.000000	Range	7.00000
		Interquartile Range	3.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.03209	Pr > |t|	<.0001
Sign	M	43.5	Pr >= |M|	<.0001
Signed Rank	S	1914	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9
99%	9
95%	9
90%	8
75% Q3	7
50% Median	6
25% Q1	4
10%	3
5%	2
1%	2
0% Min	2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	87	9	12
2	84	9	14
2	83	9	16
2	72	9	25
2	70	9	35

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: difference

Moments			
N	87	Sum Weights	87
Mean	-0.9195402	Sum Observations	-80
Std Deviation	1.0913869	Variance	1.19112537
Skewness	-0.3824239	Kurtosis	-0.2210449
Uncorrected SS	176	Corrected SS	102.436782
Coeff Variation	-118.68833	Std Error Mean	0.11700896

Basic Statistical Measures			
Location		Variability	
Mean	-0.91954	Std Deviation	1.09139
Median	-1.00000	Variance	1.19113
Mode	-1.00000	Range	5.00000
		Interquartile Range	2.00000

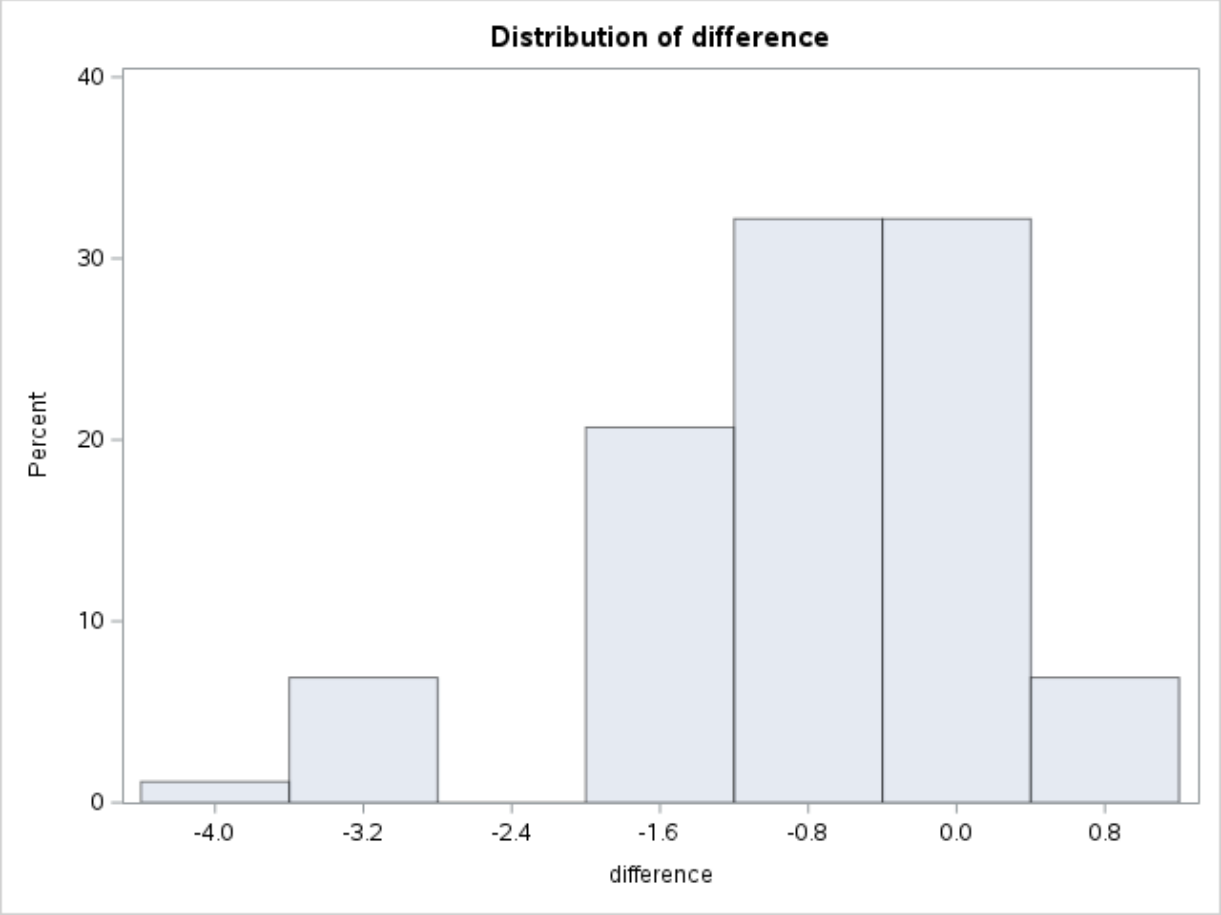
Note: The mode displayed is the smallest of 2 modes with a count of 28.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	-7.85872	**Pr > |t|**	<.0001
Sign	**M**	-23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	-780	**Pr >= |S|**	<.0001

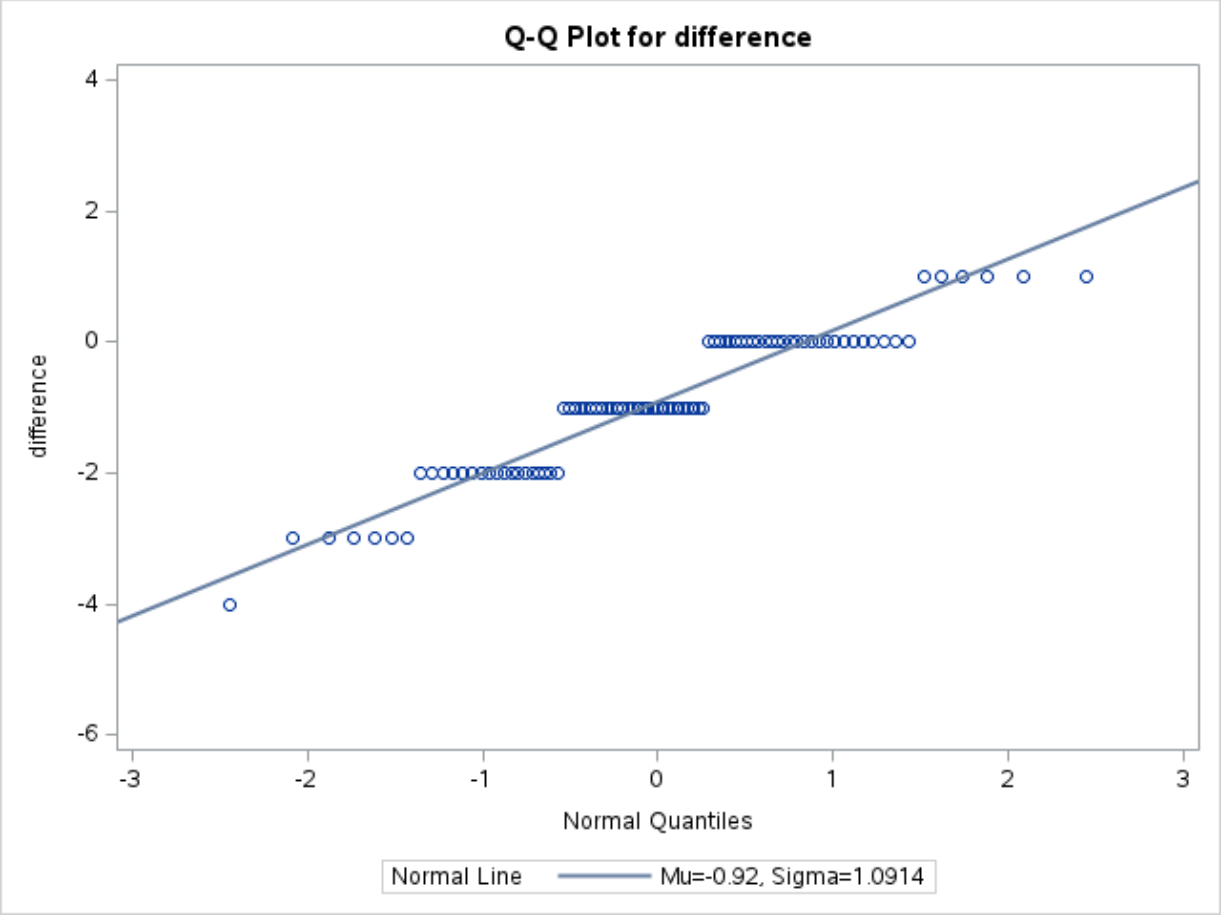
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1
99%	1
95%	1
90%	0
75% Q3	0
50% Median	-1
25% Q1	-2
10%	-2
5%	-3
1%	-4
0% Min	-4

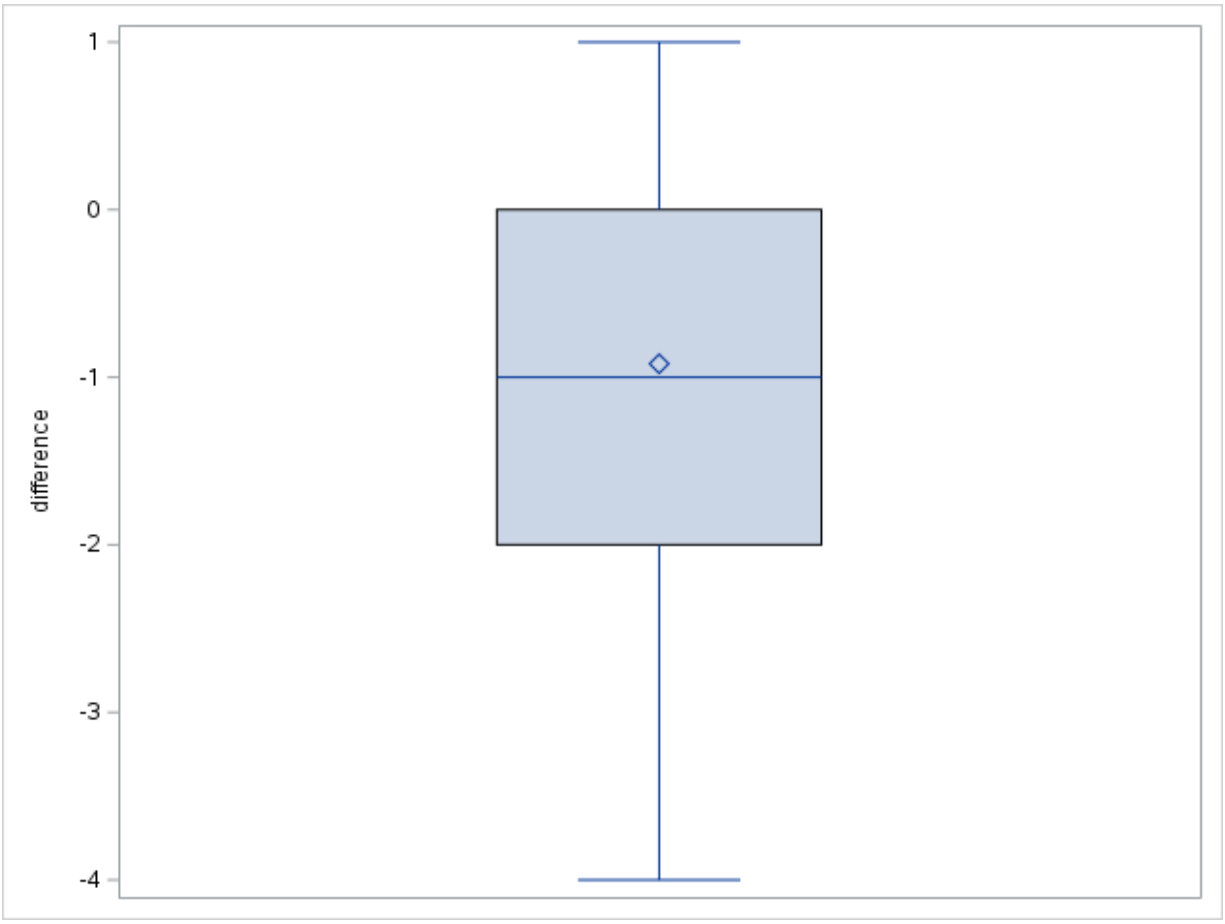
Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
-4	87	1	33
-3	70	1	43
-3	66	1	45
-3	63	1	62
-3	56	1	83

The UNIVARIATE Procedure



The UNIVARIATE Procedure


Q-Q Plot for difference
difference
4
2
0
-2
-4
-6
-3
-2
-1
0
1
2
3
Normal Quantiles
Normal Line
Mu=-0.92, Sigma=1.0914



The UNIVARIATE Procedure
Variable: difference

Gender=Female

Moments			
N	43	**Sum Weights**	43
Mean	-0.9069767	**Sum Observations**	-39
Std Deviation	1.17136375	**Variance**	1.37209302
Skewness	-0.5611377	**Kurtosis**	-0.1272379
Uncorrected SS	93	**Corrected SS**	57.627907
Coeff Variation	-129.15036	**Std Error Mean**	0.1786313

Basic Statistical Measures			
Location		**Variability**	
Mean	-0.90698	**Std Deviation**	1.17136
Median	-1.00000	**Variance**	1.37209
Mode	0.00000	**Range**	5.00000
		Interquartile Range	2.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	-5.07737	**Pr > |t|**	<.0001
Sign	**M**	-10.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	-166.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**

Quantiles (Definition 5)	
Level	Quantile
100% Max	1
99%	1
95%	1
90%	0
75% Q3	0
50% Median	-1
25% Q1	-2
10%	-2
5%	-3
1%	-4
0% Min	-4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-4	43	0	29
-3	32	0	33
-3	26	1	11
-3	9	1	20
-2	42	1	31

The UNIVARIATE Procedure
Variable: difference

Gender=Male

Moments			
N	44	Sum Weights	44
Mean	-0.9318182	Sum Observations	-41
Std Deviation	1.02066388	Variance	1.04175476
Skewness	-0.1415272	Kurtosis	-0.3277313
Uncorrected SS	83	Corrected SS	44.7954545
Coeff Variation	-109.53466	Std Error Mean	0.15387087

Basic Statistical Measures			
Location		Variability	
Mean	-0.93182	Std Deviation	1.02066
Median	-1.00000	Variance	1.04175
Mode	-1.00000	Range	4.00000
		Interquartile Range	2.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	-6.05585	Pr > |t|	<.0001
Sign	M	-13	Pr >= |M|	<.0001
Signed Rank	S	-232.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1
99%	1

Quantiles (Definition 5)	
Level	Quantile
95%	1
90%	0
75% Q3	0
50% Median	-1
25% Q1	-2
10%	-2
5%	-3
1%	-3
0% Min	-3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-3	79	0	78
-3	77	0	80
-3	52	1	59
-2	86	1	68
-2	81	1	85

The UNIVARIATE Procedure
Variable: difference

Moments			
N	87	Sum Weights	87
Mean	-0.9195402	Sum Observations	-80
Std Deviation	1.0913869	Variance	1.19112537
Skewness	-0.3824239	Kurtosis	-0.2210449
Uncorrected SS	176	Corrected SS	102.436782
Coeff Variation	-118.68833	Std Error Mean	0.11700896

Basic Statistical Measures			
Location		Variability	
Mean	-0.91954	Std Deviation	1.09139
Median	-1.00000	Variance	1.19113
Mode	-1.00000	Range	5.00000
		Interquartile Range	2.00000

Note: The mode displayed is the smallest of 2 modes with a count of 28.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	-7.85872	Pr > |t|	<.0001
Sign	M	-23.5	Pr >= |M|	<.0001
Signed Rank	S	-780	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1
99%	1
95%	1

Quantiles (Definition 5)	
Level	Quantile
90%	0
75% Q3	0
50% Median	-1
25% Q1	-2
10%	-2
5%	-3
1%	-4
0% Min	-4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-4	43	1	20
-3	79	1	31
-3	77	1	59
-3	52	1	68
-3	32	1	85

Obs	P_5	P_10	P_15	P_20	P_25	P_30	P_35	P_40	P_45	P_50	P_55	P_60	P_65	P_70	P_75	P_80	P_85	P_90	P_95	P_100
1	-3	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	1	1

The TTEST Procedure

Variable: score

Section	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
A		5	71.2000	5.2631	2.3537	65.0000	78.0000
B		5	65.0000	11.4237	5.1088	50.0000	80.0000
Diff (1-2)	Pooled		6.2000	8.8938	5.6249		
Diff (1-2)	Satterthwaite		6.2000		5.6249		

Section	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
A		71.2000	64.6650	77.7350	5.2631	3.1533	15.1238
B		65.0000	50.8157	79.1843	11.4237	6.8443	32.8265
Diff (1-2)	Pooled	6.2000	-6.7711	19.1711	8.8938	6.0074	17.0385
Diff (1-2)	Satterthwaite	6.2000	-7.7893	20.1893			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	8	1.10	0.3024
Satterthwaite	Unequal	5.6249	1.10	0.3153

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	4	4	4.71	0.1625

The TTEST Procedure

Variable: Pressure

Test	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
a		6	156.1	16.6426	6.7943	130.2	180.7
b		6	166.3	21.9951	8.9794	136.9	201.4
Diff (1-2)	Pooled		-10.2000	19.5033	11.2602		
Diff (1-2)	Satterthwaite		-10.2000		11.2602		

Test	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
a		156.1	138.6	173.5	16.6426	10.3884	40.8178
b		166.3	143.2	189.3	21.9951	13.7295	53.9454
Diff (1-2)	Pooled	-10.2000	-35.2894	14.8894	19.5033	13.6273	34.2270
Diff (1-2)	Satterthwaite	-10.2000	-35.5430	15.1430			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	10	-0.91	0.3863
Satterthwaite	Unequal	9.3119	-0.91	0.3879

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	5	5	1.75	0.5554

The FREQ Procedure

Frequency Expected

Table of Show by Gender

Show	Gender		
	Boys	Girls	Total
Lone_Ran	50 33.333	50 66.667	100
Sesame_S	30 36.667	80 73.333	110
Simpsons	20 30	70 60	90
Total	100	200	300

Statistics for Table of Show by Gender

Statistic	DF	Value	Prob
Chi-Square	2	19.3182	<.0001
Likelihood Ratio Chi-Square	2	19.0224	<.0001
Mantel-Haenszel Chi-Square	1	16.8155	<.0001
Phi Coefficient		0.2538	
Contingency Coefficient		0.2460	
Cramer's V		0.2538	

Sample Size = 300