# Classroom Assessment Project for PI 101 Introduction to Philosophy by James D. Sellmann

These are the results of my class assessment for the Spring 2000. This is my second class assessment; the first was performed on my 1999-00 intersession course. It has been 27 years since I studied research design; so, please, excuse the oversimplified nature of this project. However, just by eye-balling the data one can see that the students made a marked improvement by the end of the semester.

Objective: My objective was to verify that students learn content information about philosophy by taking a course in philosophy. "Learn content" means that they can correctly answer test questions.

Method: The first day of class I administered a one-hundred question multiple choice exam which was to be the final exam. The students took the same exam as the final exam. Then, I compared the scores based on the total number wrong.

Note: Not all the students attended the first day and some of the students who took the initial assessment test did not take the final test. They are marked n/a.

Data:		
Student's Initials TA PA TA TB RB	# wrong on assessment v68 -35 -72 -66 -51	final -19 -32 -32 -36 -29
MB	-64	n/a
MC ·	-61	-10
EDC	<del>71</del>	n/a
HD	-64	-13
ND	-64	-24
CF	-61	-10
BH	~ 63	-11
KK	-68	-42
AL	n/a	-13
RM	-69	-25
TM	-74	n/a
$ ext{TM}$	-70	n/a
JM	-58	-10
MM	-59	17
JM	-67	-22
AM	-67	-28
RM	66	- 8
JM	-73	n/a
No name	-57	n/a

MO	-61	-22
TP	-70	-17
TP	n/a	-47
GP	-61	n/a
BP	-67	-26
MP	-64	n/a
AQ	-62	-42
DQ	-80	-19
TR	-66	-12
MS	<del></del> 76	n/a
BT	-65	-29
MT	-67	-22
ST	-71	-54
MT	-62	-15
FT	-67	-37
FV	62	-26

Discussion: Without statistical analysis one can see that the students' scores improved markedly. Due to the four choice answers, the students may have gotten 25 answers correct just by guessing. On the initial assessment test 51% to 80% was the range for the number wrong; while on the final the range was 8% to 54%.

#### Results:

The classroom assessment verifies that students did gain knowledge from taking the course. Overall the range of their ignorance (denoted by number wrong) decreased by 28% to 58%.

Therefore students are learning content information in my courses.

# Frequencies

### Statistics

		PRE	POST	
N	Valid	50	49	
	Missing	9	10	

# Frequency Table

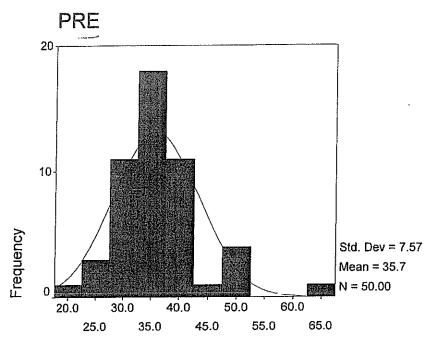
# PRE

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	20	1	1.7	2.0	2.0
	24	1	1.7	2.0	4.0
	26	1	1.7	2.0	6.0
	27	1	1.7	2.0	8.0
	28	3	5.1	6.0	14.0
	29	2	3.4	4.0	18.0
	30	3	5.1	6.0	24.0
	31	1	1.7	2.0	26.0
	32	2	3.4	4.0	30.0
	33	5	8.5	10.0	40.0
	34	3	5.1	6.0	46.0
	35	1	1.7	2.0	48.0
	36	7	11.9	14.0	62.0
	37	2	3.4	4.0	66.0
	38	4	6.8	8.0	74.0
	39	5	8.5	10.0	84.0
	41	1	1.7	2.0	86.0
	42	1	1.7	2.0	88.0
	43	1	1.7	2.0	90.0
	49	3	5.1	6.0	96.0
	50	1	1.7	2.0	98.0
	65	1	1.7	2.0	100.0
	Total	50	84.7	100.0	
Missing	System	9	15.3		
Total	-	59	100,0		

POST

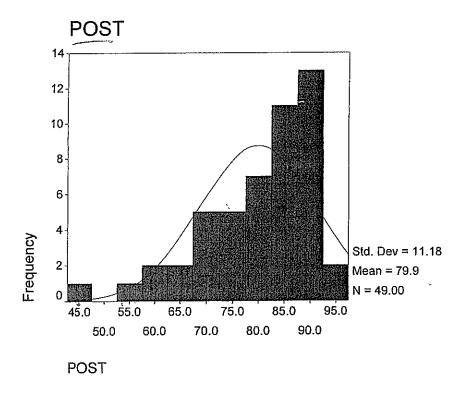
					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	46	1	1.7	2.0	2.0
	53	1	1.7	2.0	4.1
	58	2	3.4	4.1	8.2
	63	1	1.7	2.0	10.2
	64	1	1.7	2.0	12.2
	68	2	3.4	4.1	16.3
	71	2	3.4	4.1	20.4
	72	1	1.7	2.0	22.4
	74	2	3.4	4.1	26.5
	75	1	1.7	2.0	28.6
	. 76	2	3.4	4.1	32.7
	78	3	5.1	6.1	38.8
	81	3	5.1	6.1	44.9
	82	1	1.7	2.0	46.9
	83	3	5.1	6.1	53.1
	84	1	1.7	2.0	55.1
	85	2	3.4	4.1	59.2
	86	1	1.7	2.0	61.2
	87	4	6.8	8.2	69.4
	88	2	3.4	4.1	73.5
	89	3	5.1	6.1	79.6
	90	4	6.8	8.2	87.8
	91	3	5.1	6.1	93.9
	92	1	1.7	2.0	95.9
	93	2	3.4	4.1	100.0
	Total	49	83.1	100.0	ŀ
Missing	System	10	16.9		
Total		59	100.0		

# Histogram



PRE

SKEWED DISTRIBUTION



# **Descriptives**

# **Descriptive Statistics**

	Ν	N Range		Maximum
	Statistic	Statistic	Statistic	Statistic
PRE	50	45	20	65
POST	49	47	46	93
Valid N (listwise)	40			

# **Descriptive Statistics**

	Mean Statistic Std. Error		Std.	Variance
			Statistic	Statistic
PRE	35.74	1.07	7.57	57.298
POST	79.94	1.60	11.18	125.017
Valid N (listwise)				

# T-Test

#### **Paired Samples Statistics**

Mear		Mean	N	Std. Deviation	Std. Error Mean
Pair	PRE	36.53	40	7.73	1.22
1	POST	79.78	40	10.48	1.66

#### **Paired Samples Correlations**

	N	Correlation	Sig.
Pair 1 PRE & POST	40	.052	.749

# **Paired Samples Test**

		Pair	ed Differences	<u> </u>		] .
			Std. Error	95% Confide of the Dif		
<u> </u>	Mean	Std. Deviation	Mean	Lower	Upper	/ t //
Pair 1 PRE - POST	-43.25	12.70	2.01	<sub>-</sub> -47.31	-39.19	-21.547
		Paire	ed Samples T	est	N	STEENE EFFECT OF TAKANG CLASS
Pair 1 PRE - POST	df <i>(</i>	Sig. (2-tailed) .000	.)			

# Oneway

#### Warnings

Post hoc tests are not performed for PRE because there are fewer than three groups.

Post hoc tests are not performed for POST because there are fewer than three groups.

#### **Test of Homogeneity of Variances**

	Levene Statistic	df1	df2	Sig.
PRE	.143	1	48	.707
POST	11.867	1	47	.001

#### **ANOVA**

		Sum of Squares	df	Mean Square	F	,8ig.	•
PRE )	Between Groups	56.822	1	56.822	.992	.324	) NO SIGNIFICAN
	Within Groups	2750.798	48	57.308			DIFFERENCE &
	Total	2807.620	49				
POST	Between Groups	1418.623	1	1418.623	14.551	.000	
	Within Groups	4582.194	47	97.493			SIGNIFICANT DIF
	Total	6000.816	48		·-		BIT CLASSEL

#### Correlations

#### Correlations

		PRE	POST
PRE	Pearson Correlation	1.000	(.052)
İ	Sig. (2-tailed)		.749
	N	50	40
POST	Pearson Correlation	.052	1.000
	Sig. (2-tailed)	.749	
	N	40	49

\*NO CORRECATION BIT HOW STROGUES PERFORMED ON.

# Regression

#### Variables Entered/Removedb

	Variables	Variables	
Model	Entered	Removed	Method
1	PRE <sup>a</sup>		Enter

- a. All requested variables entered.
- b. Dependent Variable: POST

# A 68 ON POST ( TOP SCORE) WAS A 68 ON POST ( TO FROM LOWEST SCORE) (STILL NON-SIGNIFICANTE CORRECTATION).

# **Model Summary**

AN WAR	Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
	1	.052ª	.003	024	10.60

a. Predictors: (Constant), PRE

# $\mathsf{ANOVA}^\mathsf{b}$

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	11.636	1	11.636	.104	.749 <sup>a</sup>
	Residual	4271.339	38	112.404		
	Total	4282.975	39			

a. Predictors: (Constant), PREb. Dependent Variable: POST

#### Coefficients<sup>a</sup>

		Unstandardized Coefficients		Standardiz ed Coefficient s			
ı	Model		В	Std. Error	Beta	ti	Sig.
ľ	1	(Constant)	77.195	8.192		9.423	.000
L		PRE	7.064E-02	.220	.052	.322	.749

a. Dependent Variable: POST

# gracedata

All			
pre		post	
Mean	25.7	7 Mean	79.9
Standard Error			
Median	36.0		83.0
Mode	36.0		90.0
Standard Deviation	7.6		11.2
Sample Variance	57.3		125.0
Kurtosis	3.7	•	0.9
Skewness	1.3		-1.2
	45.0		47.0
Range Minimum	20.0	•	46.0
Maximum	65.0		93.0
iviaximum Sum	1787.0		3917.0
Count	50.0	Count	49.0
Class 1	50.0	Count	43.0
pre		post	
pre		post	
Mean	35.1	Mean	75.8
Standard Error	1.2	Standard Error	2.1
Median	34.0	Median	78.0
Mode	33.0	Mode	90.0
Standard Deviation	7.6	Standard Deviation	11.9
Sample Variance	57.0	Sample Variance	141.1
Kurtosis	6.1	Kurtosis	0.0
Skewness	1.6	Skewness	-0.7
Range	45.0	Range	46.0
Minimum	20.0	Minimum	46.0
Maximum	65.0	Maximum	92.0
Sum	1299.0	Sum	2351.0
Count	37.0	Count	31.0
Class 2			
pre		post	
Mean	37.54	Mean	87
Standard Error	2.114	Standard Error	1.069
Median	36	Median	87.5
Mode	36	Mode	91
Standard Deviation		Standard Deviation	4.537
Sample Variance	58.1	Sample Variance	20.59
Kurtosis	-0.685	Kurtosis	0.42
Skewness	0.579	Skewness	-0.782
Range	22	Range	17
Minimum	28	Minimum	76
Maximum	50	Maximum	93
iviaximum Sum	488	Sum	1566
Count	13	Count	18
Count	10	Odunt	
correlation (all)			
pre*post	0.052		
correlation (exclude o	ne)		
pre*post	0.204		

