

Appendix 13

Random Test of Pretest and Post Test

Random Test of Pretest Data

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
PRETEST	31	20	83	49.58	20.021

Runs Test

	PRETEST
Test Value(a)	49.58
Cases < Test Value	15
Cases >= Test Value	16
Total Cases	31
Number of Runs	16
Z	.000
Asymp. Sig. (2-tailed)	1.000

a Mean

Random Test of Post Test Data

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
POST TEST	31	43	100	68.48	16.466

Runs Test

	POST TEST
Test Value(a)	68.48
Cases < Test Value	18
Cases >= Test Value	13
Total Cases	31
Number of Runs	14
Z	-.600
Asymp. Sig. (2-tailed)	.549

a Mean