

Appendix 12

Table Frequencies of Pretest

Distribution Frequency of Pretest Scores in Experimental Class

Statistics

Pretest Score in
Experimental Class

N	Valid	30
	Missing	0
Mean		56.167
Median		54.000
Mode		66.0
Std. Deviation		12.3849
Variance		153.385
Range		42.0
Minimum		36.0
Maximum		78.0
Sum		1685.0

Pretest Score in Experimental Class

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	36	2	6.7	6.7	6.7
	38	2	6.7	6.7	13.3
	40	1	3.3	3.3	16.7
	44	2	6.7	6.7	23.3
	48	1	3.3	3.3	26.7
	50	3	10.0	10.0	36.7
	52	1	3.3	3.3	40.0
	53	1	3.3	3.3	43.3
	54	3	10.0	10.0	53.3
	58	1	3.3	3.3	56.7
	60	1	3.3	3.3	60.0

62	1	3.3	3.3	63.3
64	1	3.3	3.3	66.7
66	4	13.3	13.3	80.0
70	3	10.0	10.0	90.0
72	1	3.3	3.3	93.3
76	1	3.3	3.3	96.7
78	1	3.3	3.3	100.0
Total	30	100.0	100.0	

Distribution Frequency of Pretest Scores in Control Class

Statistics

Pretest Score in Control Class

N	Valid	30
	Missing	0
Mean		55.9000
Median		56.5000
Mode		58.00
Std. Deviation		1.28072E1
Variance		164.024
Range		48.00
Minimum		34.00
Maximum		82.00
Sum		1677.00

Pretest Score in Control Class

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	34	1	3.3	3.3	3.3
	36	2	6.7	6.7	10.0
	38	1	3.3	3.3	13.3
	40	1	3.3	3.3	16.7
	42	1	3.3	3.3	20.0

46	2	6.7	6.7	26.7
48	2	6.7	6.7	33.3
52	2	6.7	6.7	40.0
54	2	6.7	6.7	46.7
55	1	3.3	3.3	50.0
58	3	10.0	10.0	60.0
60	1	3.3	3.3	63.3
62	1	3.3	3.3	66.7
64	2	6.7	6.7	73.3
66	2	6.7	6.7	80.0
68	1	3.3	3.3	83.3
70	2	6.7	6.7	90.0
74	1	3.3	3.3	93.3
76	1	3.3	3.3	96.7
82	1	3.3	3.3	100.0
Total	30	100.0	100.0	

Appendix 13

Table Frequencies of Posttest

Distribution Frequency of Posttest Scores in Experimental Class

Statistics

Posttest Score in
Experimental Class

N	Valid	30
	Missing	0
Mean		72.1333
Median		73.0000
Mode		72.00 ^a
Std. Deviation		1.40067E1
Variance		196.189
Range		50.00
Minimum		40.00
Maximum		90.00
Sum		2164.00

a. Multiple modes exist. The smallest value is shown

Posttest Score in Experimental Class

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	40	1	3.3	3.3	3.3
	48	1	3.3	3.3	6.7
	50	2	6.7	6.7	13.3
	58	1	3.3	3.3	16.7
	60	2	6.7	6.7	23.3
	64	2	6.7	6.7	30.0
	65	1	3.3	3.3	33.3

66	1	3.3	3.3	36.7
70	1	3.3	3.3	40.0
72	3	10.0	10.0	50.0
74	1	3.3	3.3	53.3
75	1	3.3	3.3	56.7
76	1	3.3	3.3	60.0
78	1	3.3	3.3	63.3
80	1	3.3	3.3	66.7
84	2	6.7	6.7	73.3
86	3	10.0	10.0	83.3
88	3	10.0	10.0	93.3
90	2	6.7	6.7	100.0
Total	30	100.0	100.0	

Distribution Frequency of Posttest in Control Class

Statistics

Posttest Score in Control Class

N	Valid	30
	Missing	0
Mean		68.1333
Median		73.0000
Mode		80.00
Std. Deviation		1.48341E1
Variance		220.051
Range		48.00
Minimum		42.00
Maximum		90.00
Sum		2044.00

Posttest Score in Control Class

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	42	3	10.0	10.0	10.0
	48	2	6.7	6.7	16.7
	52	1	3.3	3.3	20.0
	54	2	6.7	6.7	26.7
	56	1	3.3	3.3	30.0
	59	1	3.3	3.3	33.3
	60	1	3.3	3.3	36.7
	66	1	3.3	3.3	40.0
	70	1	3.3	3.3	43.3
	72	2	6.7	6.7	50.0
	74	1	3.3	3.3	53.3
	75	1	3.3	3.3	56.7
	76	1	3.3	3.3	60.0
	78	2	6.7	6.7	66.7
	80	4	13.3	13.3	80.0
	82	3	10.0	10.0	90.0
	84	1	3.3	3.3	93.3
	86	1	3.3	3.3	96.7
	90	1	3.3	3.3	100.0
	Total	30	100.0	100.0	