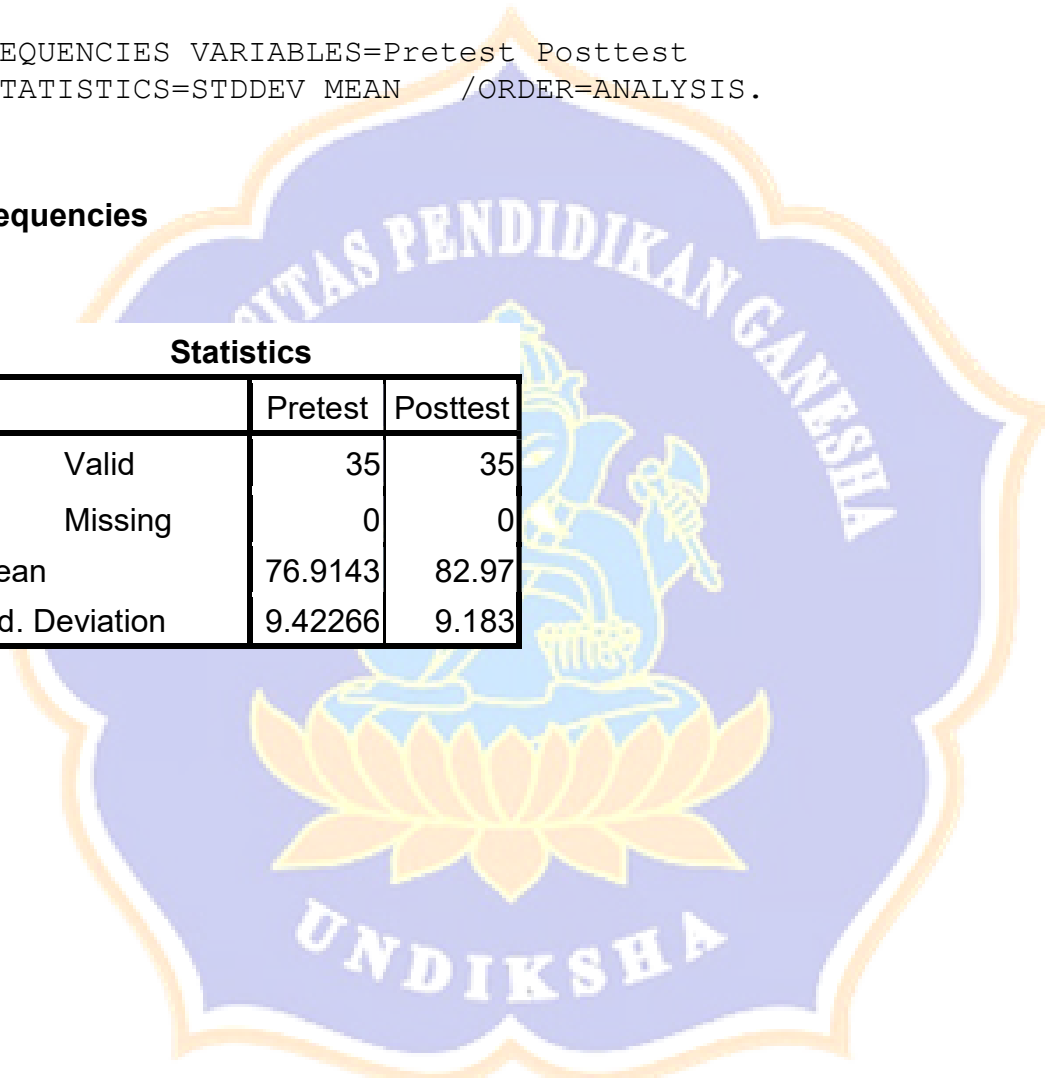


APPENDIX 1**Quantitative Analysis****Descriptive Analysis**

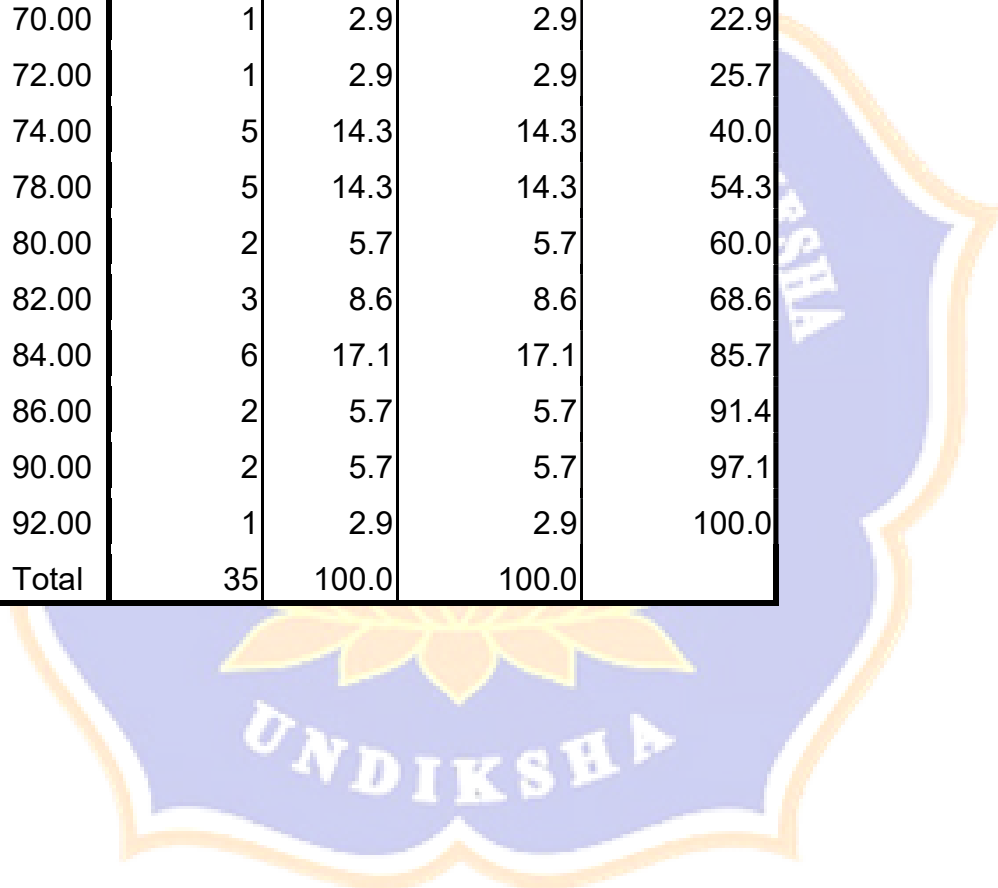
```
FREQUENCIES VARIABLES=Pretest Posttest  
/STATISTICS=STDDEV MEAN /ORDER=ANALYSIS.
```

Frequencies

	Pretest	Posttest
N Valid	35	35
Missing	0	0
Mean	76.9143	82.97
Std. Deviation	9.42266	9.183

Pretest

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	50.00	1	2.9	2.9	2.9
	58.00	1	2.9	2.9	5.7
	60.00	1	2.9	2.9	8.6
	66.00	2	5.7	5.7	14.3
	68.00	2	5.7	5.7	20.0
	70.00	1	2.9	2.9	22.9
	72.00	1	2.9	2.9	25.7
	74.00	5	14.3	14.3	40.0
	78.00	5	14.3	14.3	54.3
	80.00	2	5.7	5.7	60.0
	82.00	3	8.6	8.6	68.6
	84.00	6	17.1	17.1	85.7
	86.00	2	5.7	5.7	91.4
	90.00	2	5.7	5.7	97.1
	92.00	1	2.9	2.9	100.0
Total		35	100.0	100.0	



Posttest

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 56	1	2.9	2.9	2.9
64	1	2.9	2.9	5.7
68	1	2.9	2.9	8.6
70	1	2.9	2.9	11.4
74	2	5.7	5.7	17.1
76	2	5.7	5.7	22.9
78	1	2.9	2.9	25.7
80	3	8.6	8.6	34.3
82	2	5.7	5.7	40.0
84	4	11.4	11.4	51.4
86	4	11.4	11.4	62.9
88	6	17.1	17.1	80.0
90	2	5.7	5.7	85.7
92	2	5.7	5.7	91.4
96	1	2.9	2.9	94.3
98	2	5.7	5.7	100.0
Total	35	100.0	100.0	

Prerequisite Test

```
EXAMINE VARIABLES=Score BY Group /PLOT BOXPLOT STEMLEAF
NPLOT SPREADLEVEL /COMPARE GROUP /STATISTICS
DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE
/NOTOTAL.
```

Tests of Normality

Group	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Score pretest	.142	35	.073	.946	35	.083
posttest	.145	35	.062	.944	35	.073

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

	Levene Statistic	df1	df2	Sig.
Score Based on Mean	.081	1	68	.777
Based on Median	.076	1	68	.783
Based on Median and with adjusted df	.076	1	67.826	.783
Based on trimmed mean	.078	1	68	.782

T-Paired Sample Test

T-TEST PAIRS=Pretest WITH Posttest (PAIRED)
/CRITERIA=CI (.9500) /MISSING=ANALYSIS.

T-Test

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Pretest	76.9143	35	9.42266	1.59272
Posttest	82.97	35	9.183	1.552

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Pretest & Posttest	35	.958	.000

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Pretest - Posttest	-6.05714	2.72184	.46007	-6.99213	-5.12216	-13.166	34	.000