

```

EXAMINE VARIABLES=PRETEST POSTTEST
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

## Explore

### Notes

Output Created		07-FEB-2026 21:33:04
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=PRETEST POSTTEST /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:05,03
	Elapsed Time	00:00:03,96

## Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
PRETEST	30	100,0%	0	0,0%	30	100,0%
POSTTEST	30	100,0%	0	0,0%	30	100,0%

## Descriptives

		Statistic	Std. Error
PRETEST	Mean	70,2667	1,36536
	95% Confidence Interval for Mean	Lower Bound	67,4742
		Upper Bound	73,0591
	5% Trimmed Mean	69,9259	
	Median	72,0000	
	Variance	55,926	
	Std. Deviation	7,47840	
	Minimum	60,00	
	Maximum	88,00	
	Range	28,00	
	Interquartile Range	12,00	
	Skewness	,380	,427
	Kurtosis	-,337	,833
POSTTEST	Mean	87,0667	1,04489
	95% Confidence Interval for Mean	Lower Bound	84,9296
		Upper Bound	89,2037
	5% Trimmed Mean	87,1852	
	Median	88,0000	
	Variance	32,754	
	Std. Deviation	5,72311	
	Minimum	76,00	
	Maximum	96,00	
	Range	20,00	
	Interquartile Range	8,00	
	Skewness	-,240	,427
	Kurtosis	-,789	,833

### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
PRETEST	,132	30	,191	,942	30	,104
POSTTEST	,172	30	,023	,933	30	,060

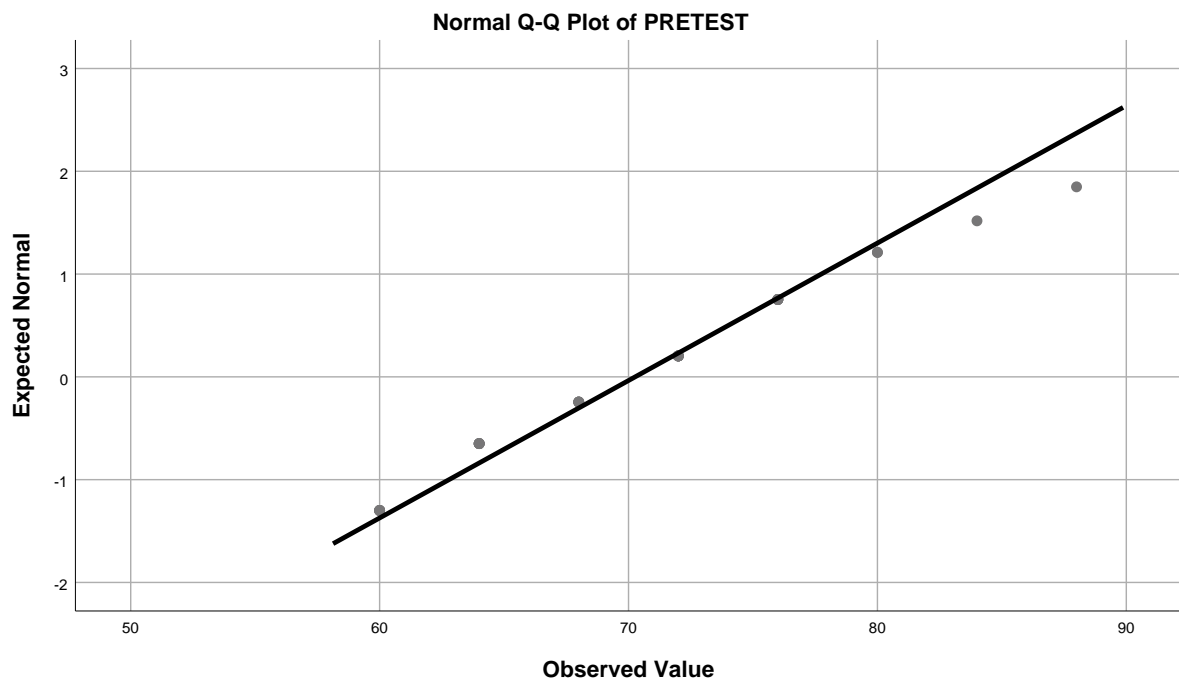
a. Lilliefors Significance Correction

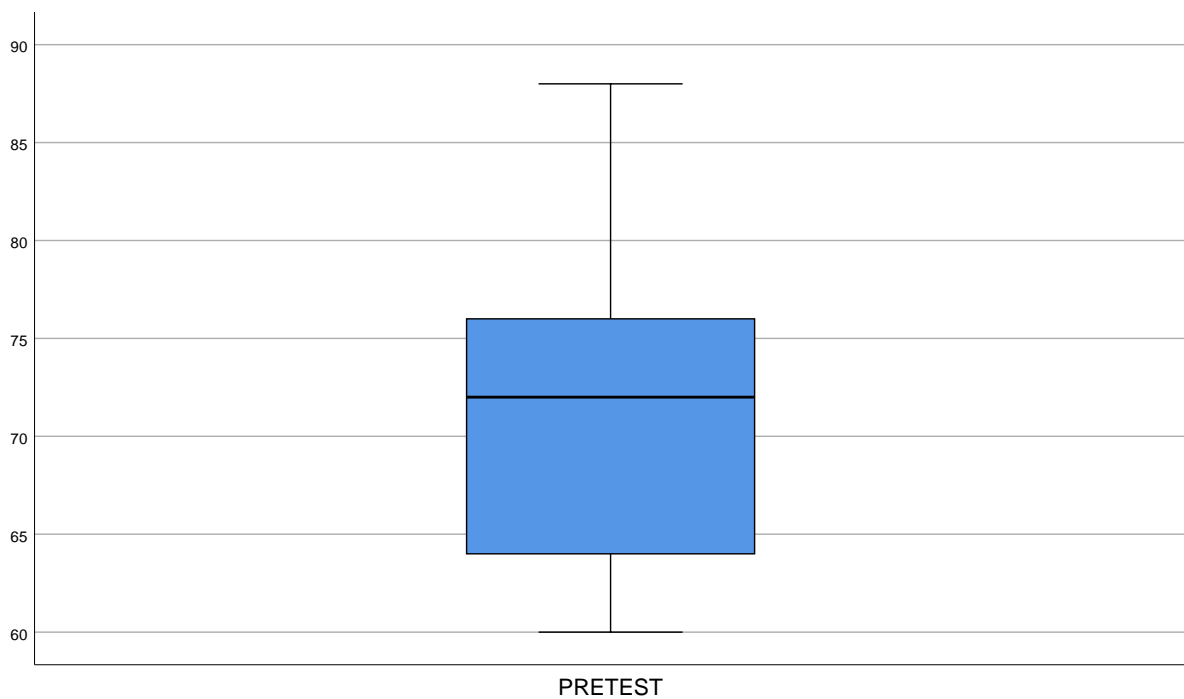
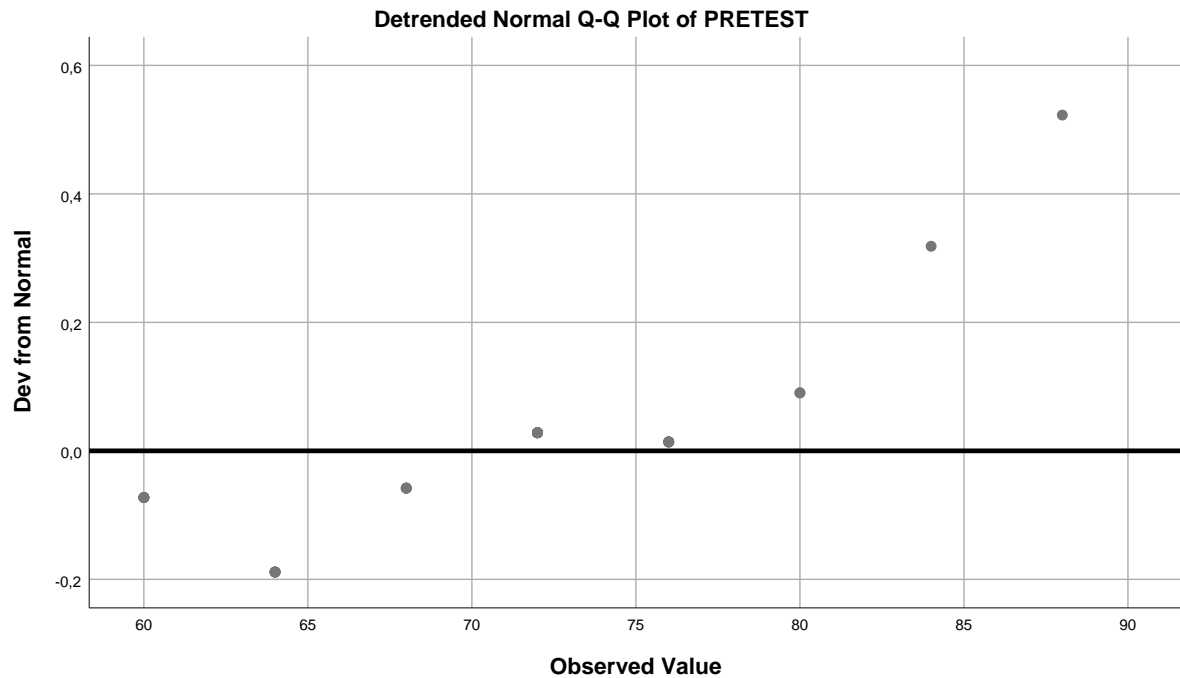
## PRETEST

PRETEST Stem-and-Leaf Plot

Frequency	Stem &	Leaf
10,00	6 .	0000044444
4,00	6 .	8888
7,00	7 .	2222222
5,00	7 .	66666
3,00	8 .	004
1,00	8 .	8

Stem width: 10,00  
Each leaf: 1 case(s)





## POSTTEST

POSTTEST Stem-and-Leaf Plot

Frequency	Stem &	Leaf
2,00	7 .	66
11,00	8 .	000044444444
6,00	8 .	888888

8,00	9 .	22222222
3,00	9 .	666

Stem width: 10,00  
Each leaf: 1 case(s)

