

Descriptives

Notes

Output Created		12-FEB-2025 17:20:30	
Comments			
Input	Active Dataset	DataSet0	
	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File		37
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.	
	Cases Used	All non-missing data are used.	
Syntax		DESCRIPTIVES VARIABLES=Pretest Posttest /STATISTICS=MEAN STDDEV MIN MAX .	
Resources	Elapsed Time		0:00:00,00
	Processor Time		0:00:00,00

[DataSet0]

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Nilai Pretest	37	30	75	52,16	11,758
Nilai Posttest	37	20	95	61,62	20,752
Valid N (listwise)	37				

	N	Minimum	Maximum	Mean	Std. Deviation
Nilai Pretest	37	30	75	52,16	11,758
Nilai Posttest	37	20	95	61,62	20,752
Valid N (listwise)	37				

Explore

Notes

Output Created		12-FEB-2025 17:21:07	
Comments			
Input	Active Dataset	DataSet0	
	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File		37
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 HISTOGRAM NPLOT /COMPARE GROUP /STATISTICS DESCRIPTIVES /INTERVAL 95 /MISSING LISTWISE /NOTOTAL.	
Resources	Elapsed Time		0:00:00,83
	Processor Time		0:00:00,66

[DataSet0]

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Nilai Pretest	37	100,0%	0	,0%	37	100,0%
Nilai Posttest	37	100,0%	0	,0%	37	100,0%

Descriptives

	Statistic	Std. Error
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Nilai Pretest	Mean		52,16	1,933
	95% Confidence Interval for Mean	Lower Bound	48,24	
		Upper Bound	56,08	
	5% Trimmed Mean		52,00	
	Median		50,00	
	Variance		138,251	
	Std. Deviation		11,758	
	Minimum		30	
	Maximum		75	
	Range		45	
	Interquartile Range		15	
	Skewness		,327	
	Kurtosis		-,375	
Nilai Posttest	Mean		61,62	3,412
	95% Confidence Interval for Mean	Lower Bound	54,70	
		Upper Bound	68,54	
	5% Trimmed Mean		62,08	
	Median		65,00	
	Variance		430,631	
	Std. Deviation		20,752	
	Minimum		20	
	Maximum		95	
	Range		75	
	Interquartile Range		28	
	Skewness		-,495	
	Kurtosis		-,552	

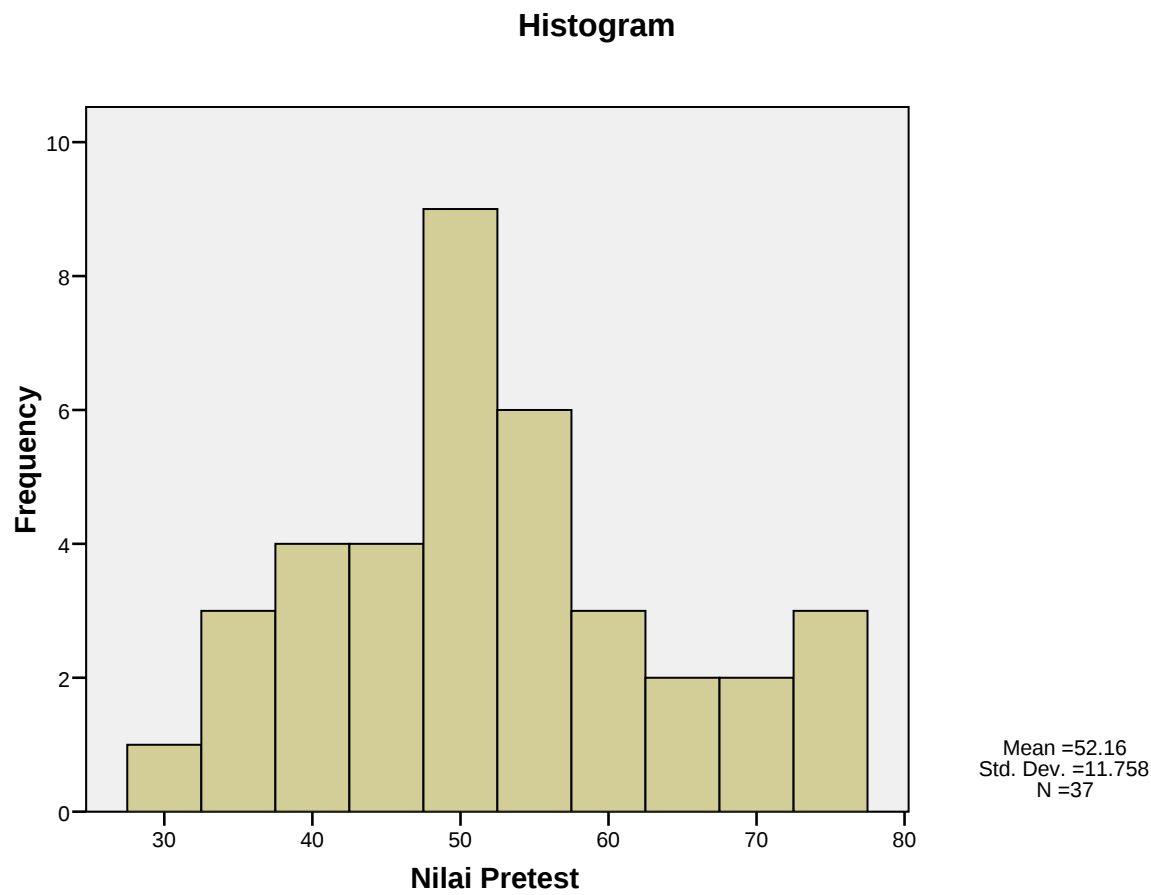
	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Nilai Pretest	,141	37	,063	,956	37	,154
Nilai Posttest	,143	37	,053	,942	37	,055

Tests of Normality

	Kolmogorov-Smirnov(a)			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Nilai Pretest	,141	37	,063	,956	37	,154	
Nilai Posttest	,143	37	,053	,942	37	,055	

a Lilliefors Significance Correction

Nilai Pretest

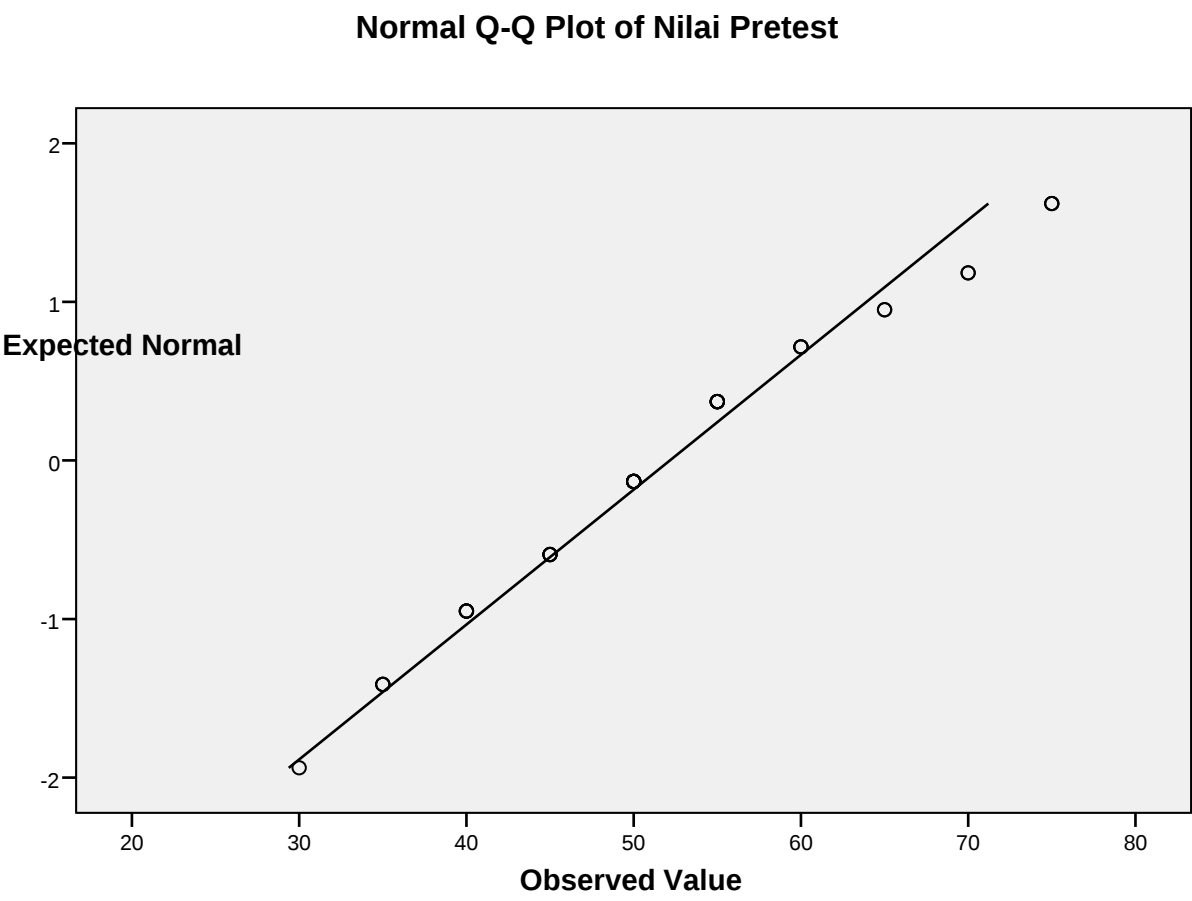


Nilai Pretest Stem-and-Leaf Plot

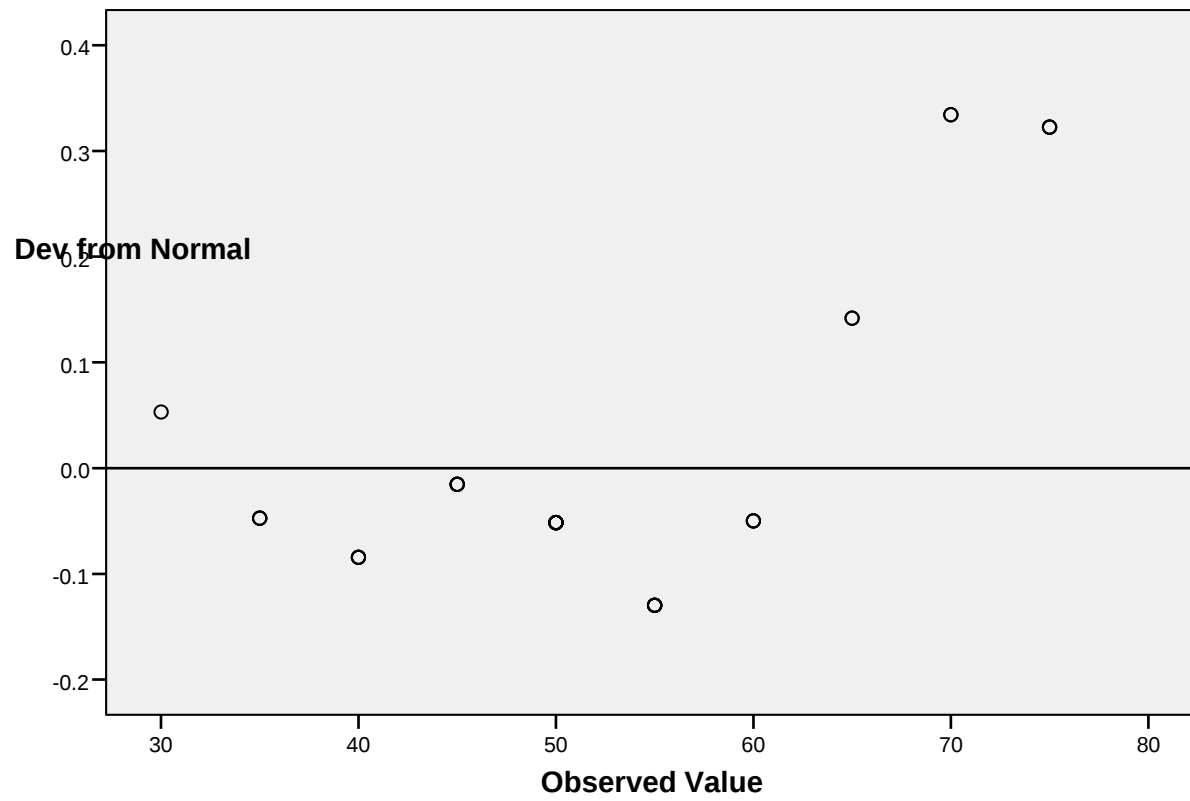
Frequency	Stem &	Leaf
1,00	3 .	0
3,00	3 .	555
4,00	4 .	0000
4,00	4 .	5555
9,00	5 .	000000000
6,00	5 .	555555
3,00	6 .	000
2,00	6 .	55
2,00	7 .	00
3,00	7 .	555

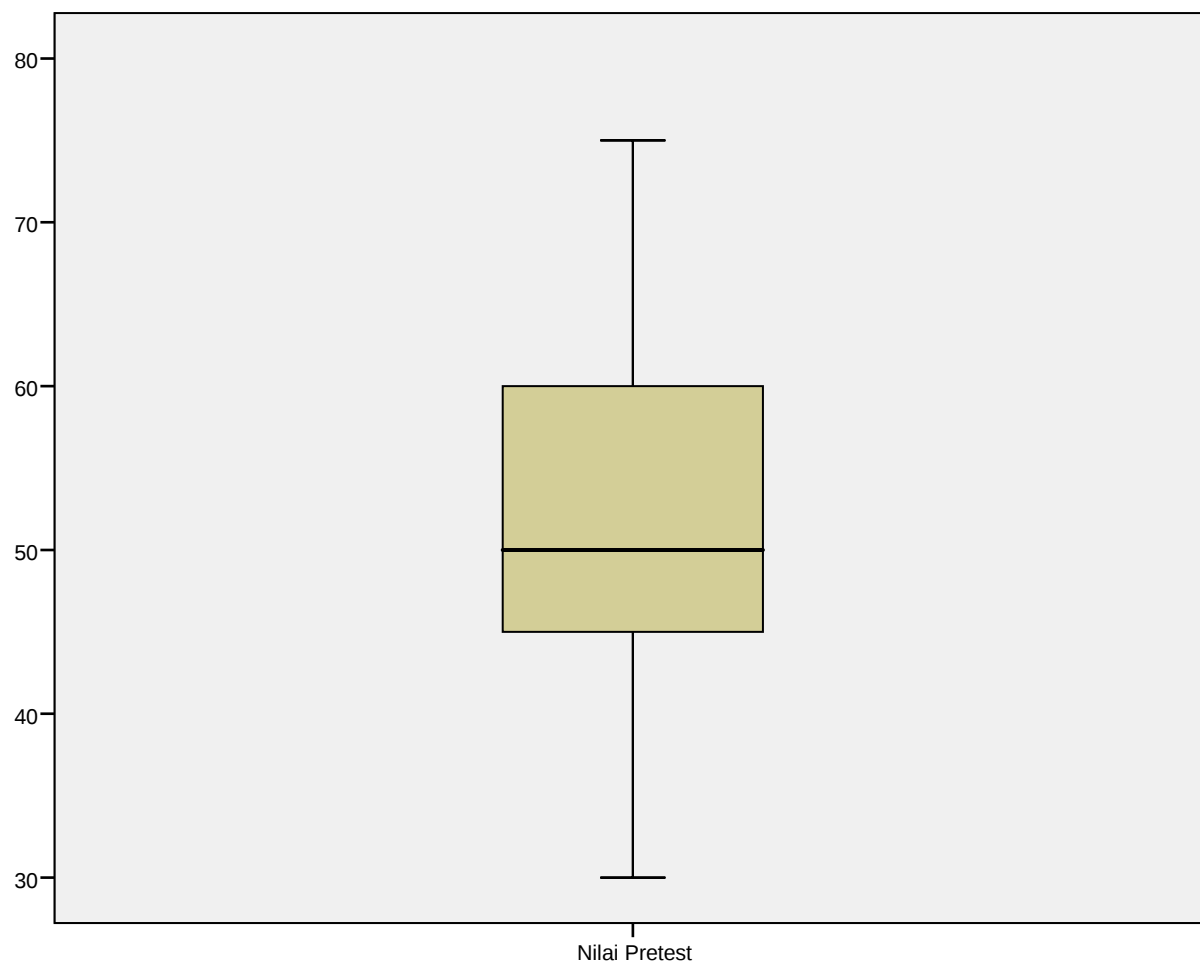
Stem width: 10

Each leaf: 1 case(s)

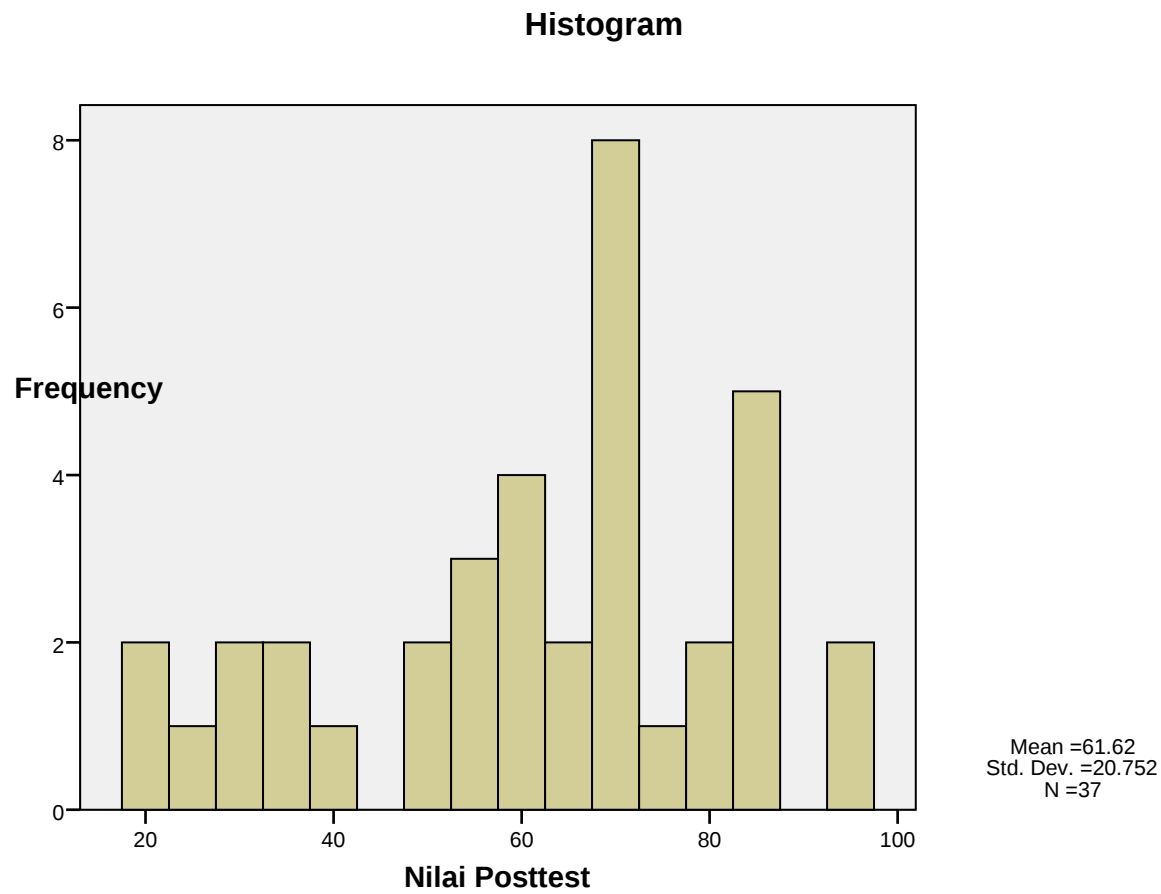


Detrended Normal Q-Q Plot of Nilai Pretest





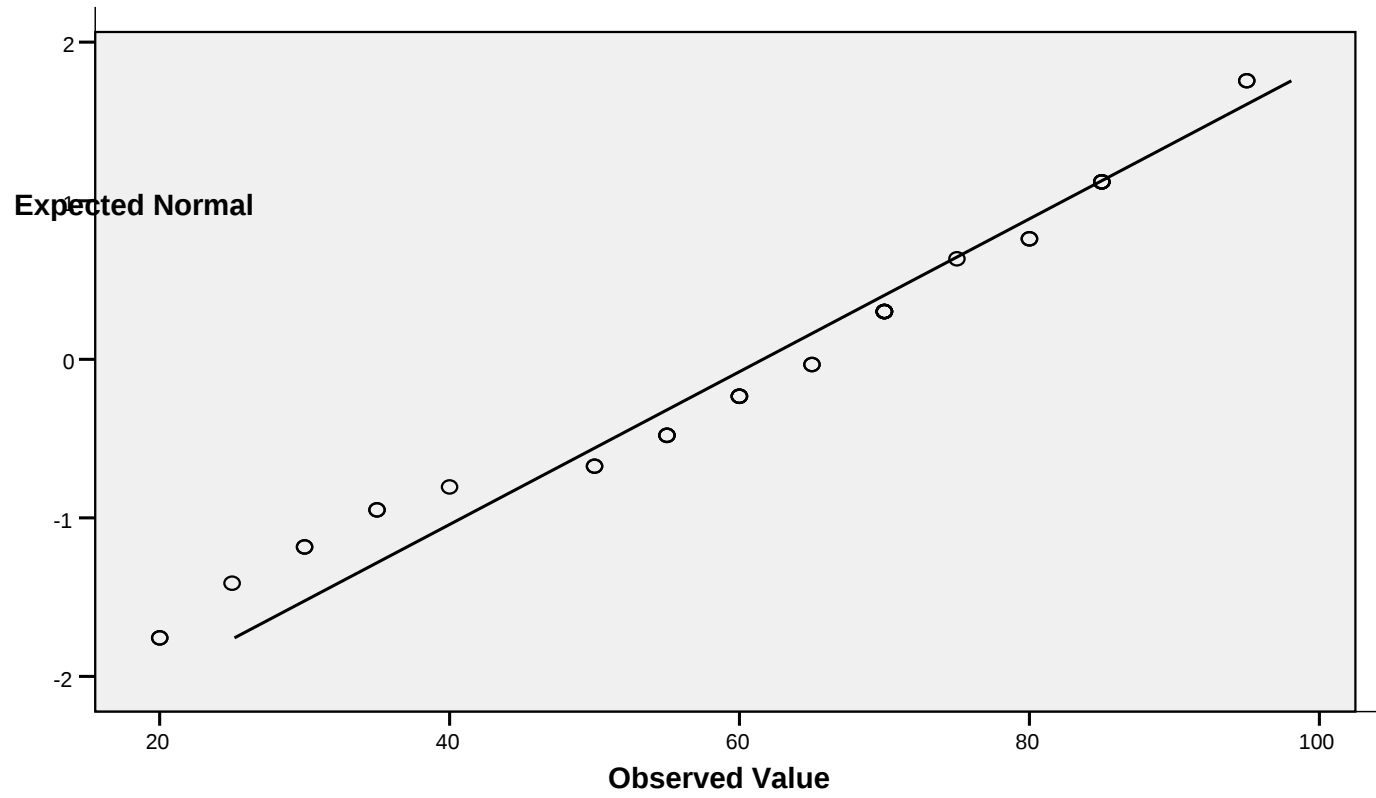
Nilai Posttest



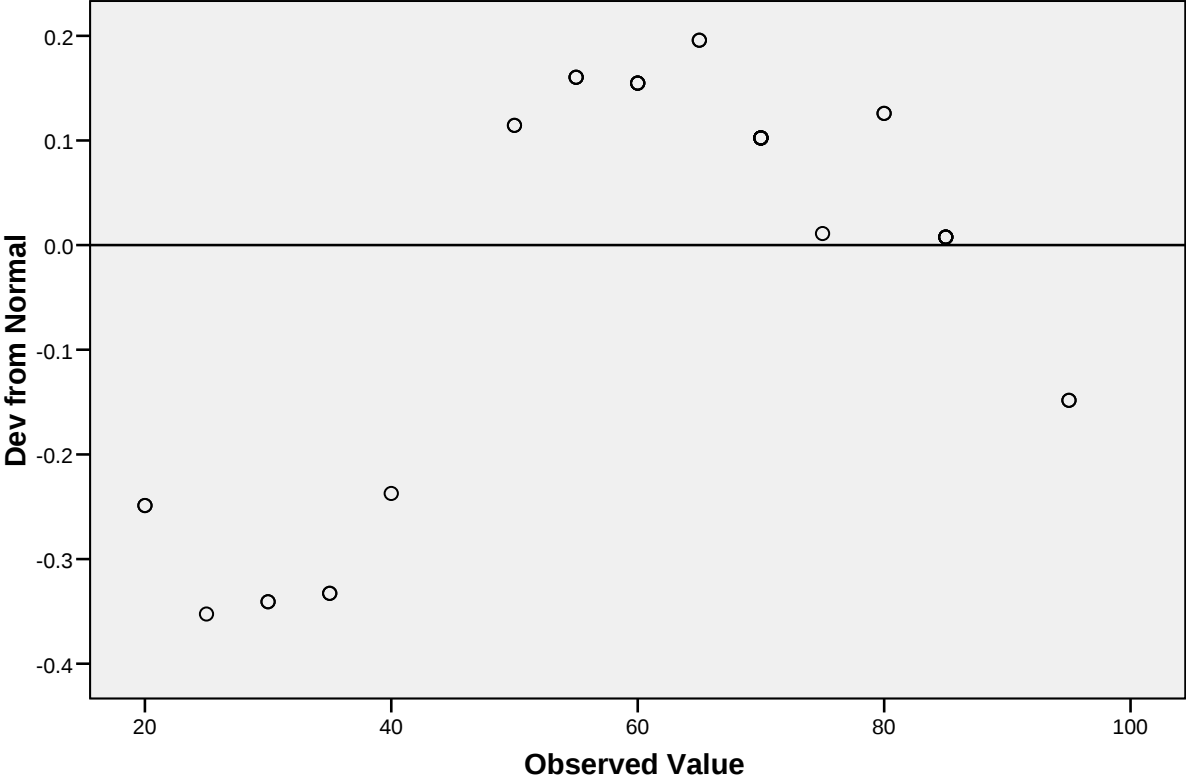
Nilai Posttest Stem-and-Leaf Plot

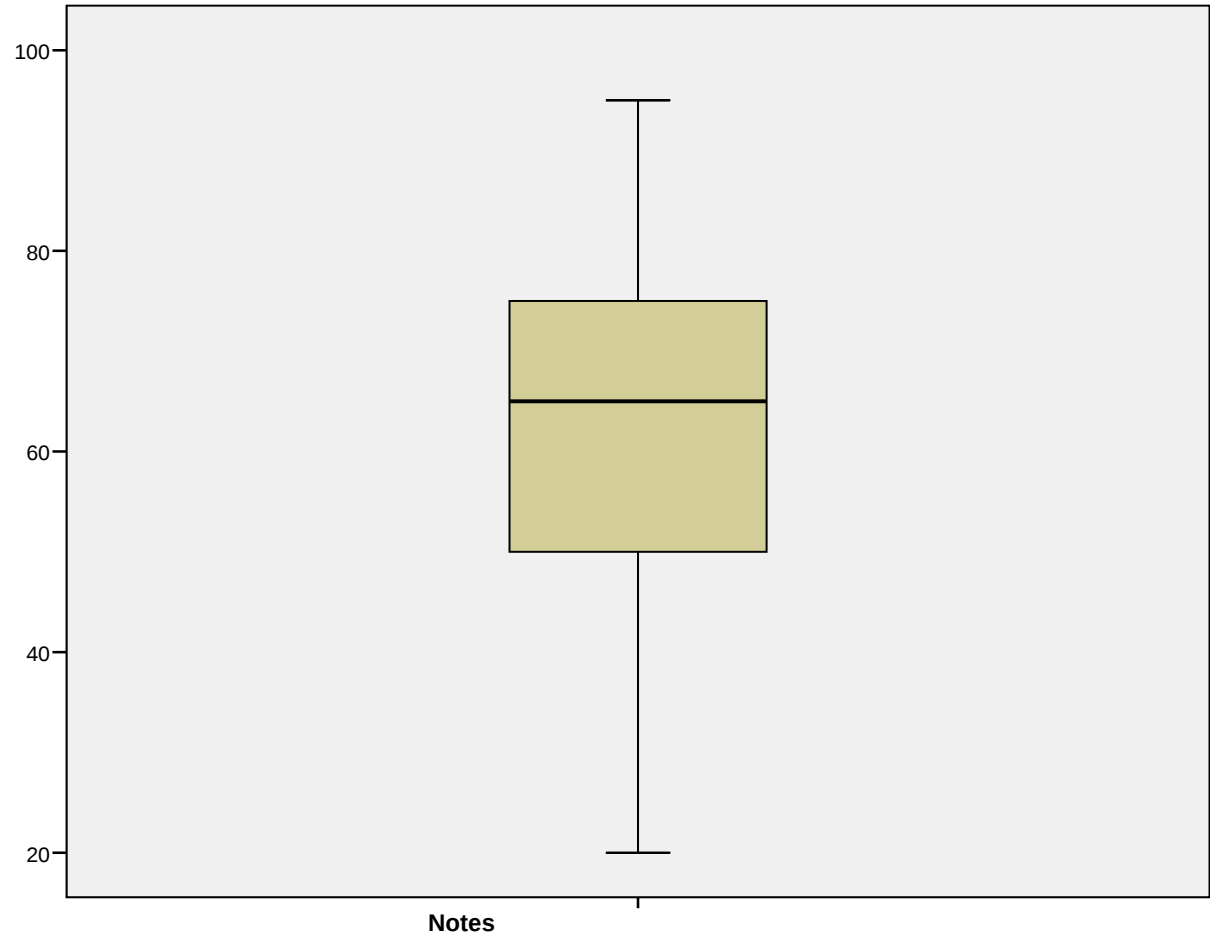
Frequency	Stem &	Leaf
3,00	2 .	005
4,00	3 .	0055
1,00	4 .	0
5,00	5 .	00555
6,00	6 .	000055
9,00	7 .	000000005
7,00	8 .	0055555
2,00	9 .	55
Stem width: 10		
Each leaf: 1 case(s)		

Normal Q-Q Plot of Nilai Posttest



Detrended Normal Q-Q Plot of Nilai Posttest





Output Created		12-FEB-2025 17:24:17
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	37
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax	ONEWAY Pretest Posttest BY VAR00001 /STATISTICS HOMOGENEITY /MISSING ANALYSIS .	
Resources	Elapsed Time	
		0:00:00,00

Processor Time	0:00:00,00
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Notes

Output Created	12-FEB-2025 17:27:09	
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	37
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax	ONEWAY Pretest BY Posttest /STATISTICS HOMOGENEITY /MISSING ANALYSIS .	
Resources	Elapsed Time	0:00:00,00
	Processor Time	0:00:00,00

Notes

Output Created	12-FEB-2025 17:54:24	
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	74
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=Hasil BY Kelas /PLOT BOXPLOT STEMLEAF NPLOT SPREADLEVEL /COMPARE GROUP /STATISTICS DESCRIPTIVES /INTERVAL 95 /MISSING LISTWISE	

		/NOTOTAL.
Resources	Elapsed Time	
		0:00:00,59
	Processor Time	0:00:00,48

```
T-TEST
  PAIRS = Pretest  WITH Posttest (PAIRED)
/CRITERIA = CI(.95)
/MISSING = ANALYSIS.
```

Notes

Output Created		12-FEB-2025 18:26:53
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	74
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax	T-TEST PAIRS = Pretest WITH Posttest (PAIRED) /CRITERIA = CI(.95) /MISSING = ANALYSIS.	
Resources	Elapsed Time	
		0:00:00,00
	Processor Time	0:00:00,00

```
T-TEST
  PAIRS = Pretest  WITH Posttest (PAIRED)
/CRITERIA = CI(.95)
/MISSING = ANALYSIS.
```

T-Test

Notes

Output Created		12-FEB-2025 18:29:57
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	74
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST PAIRS = Pretest WITH Posttest (PAIRED) /CRITERIA = CI(.95) /MISSING = ANALYSIS.
Resources	Elapsed Time	0:00:00,02
	Processor Time	0:00:00,02

[DataSet0]

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Nilai Pretest	52,16	37	11,758	1,933
	Nilai Posttest	61,62	37	20,752	3,412

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Nilai Pretest & Nilai Posttest	37	,236	,160

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		Mean	Std. Deviation	Std. Error Mean
		Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Pair 1	Nilai Pretest - Nilai Posttest	-9,459	21,304	3,502	-16,563	-2,356	-2,701	36	,010