

kontrol			perlakuan		
no resp	JK	Usia	no resp	JK	Usia
1	1	2	1	1	2
2	2	1	2	1	3
3	1	2	3	2	1
4	2	1	4	1	1
5	1	1	5	1	1
6	2	1	6	1	1
7	2	3	7	1	1
8	1	1	8	1	1
9	1	1	9	1	2
10	1	2	10	2	1
11	2	1	11	1	1
12	2	2	12	2	1
13	2	1	13	2	1
14	1	1	14	1	1
15	1	1	15	1	1
16	1	1	16	2	2
17	1	1	17	1	2
18	2	1	18	2	1
19	1	3	19	2	1
20	2	1	20	1	1
21	1	1	21	2	1
22	2	1	22	1	2

Ket: JK 1= Laki-laki
2= Perempuan
Usia 1 = 9 tahun
2 = 10 tahun
3 = 11 tahun

Statistics

		Jenis Kelamin Responden	Usia Responden
N	Valid	22	22
	Missing	0	0
Mean		1.45	1.41
Minimum		1	1
Maximum		2	3

Jenis Kelamin Responden

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Laki-laki	12	54.5	54.5	54.5
	Perempuan	10	45.5	45.5	100.0
Total		22	100.0	100.0	

Usia Responden

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	9 tahun	15	68.2	68.2	68.2
	10 tahun	5	22.7	22.7	90.9
	11 tahun	2	9.1	9.1	100.0
Total		22	100.0	100.0	

Spss perlakuan

Statistics

		Jenis Kelamin Responden	Usia Responden
N	Valid	22	22
	Missing	0	0
Mean		1.36	1.32
Minimum		1	1
Maximum		2	3

Jenis Kelamin Responden

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Laki-laki	14	63.6	63.6	63.6
	Perempuan	8	36.4	36.4	100.0
Total		22	100.0	100.0	

Usia Responden

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	9 tahun	16	72.7	72.7	72.7
	10 tahun	5	22.7	22.7	95.5
	11 tahun	1	4.5	4.5	100.0
Total		22	100.0	100.0	

Normalitas data

Pre-kontrol

Pre-perlakuan

Tests of Normality

	Kolmogorov-Smirnov ^a			Statistic	Sig.
	Statistic	df	Sig.		
pengetahuan	.176	22	.076	.942	
sikap	.255	22	.001	.838	

a. Lilliefors Significance Correction

Tests of Normality

	Kolmogorov-Smirnov ^a			Statistic	Sig.
	Statistic	df	Sig.		
pengetahuan	.205	22	.017	.950	
sikap	.205	22	.017	.867	

a. Lilliefors Significance Correction

Post-kontrol

Post-perlakuan

Tests of Normality

	Kolmogorov-Smirnov ^a			Statistic	Sig.
	Statistic	df	Sig.		
pengetahuan	.155	22	.186	.950	
sikap	.300	22	.000	.793	

a. Lilliefors Significance Correction

Tests of Normality

	Kolmogorov-Smirnov ^a			Statistic	Sig.
	Statistic	df	Sig.		
pengetahuan	.246	22	.001	.871	
sikap	.378	22	.000	.589	

a. Lilliefors Significance Correction

UNIVARIAT PRE-KONTROL

Statistics

		Pengetahuan	Sikap
N	Valid	22	22
	Missing	0	0
Mean		45.1523	77.7273
Median		46.6700	80.0000
Std. Deviation		15.38568	1.23179E1

Pengetahuan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	20	1	4.5	4.5	4.5
	26.67	4	18.2	18.2	22.7
	33.33	2	9.1	9.1	31.8
	40	1	4.5	4.5	36.4
	46.67	7	31.8	31.8	68.2
	53.33	3	13.6	13.6	81.8
	60	2	9.1	9.1	90.9
	73.33	1	4.5	4.5	95.5
	80	1	4.5	4.5	100.0
Total		22	100.0	100.0	

Sikap

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	50	2	9.1	9.1	9.1
	60	1	4.5	4.5	13.6
	70	4	18.2	18.2	31.8
	80	8	36.4	36.4	68.2
	90	7	31.8	31.8	100.0
Total		22	100.0	100.0	

UNIVARIAT POST-KONTROL

Statistics

		Pengetahuan	Sikap
N	Valid	22	22
	Missing	0	0
Mean		57.5750	80.4545
Median		53.3300	80.0000
Std. Deviation		15.33306	6.52998

Pengetahuan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	26.67	1	4.5	4.5	4.5
	33.33	1	4.5	4.5	9.1
	40	2	9.1	9.1	18.2
	46.67	2	9.1	9.1	27.3
	53.33	6	27.3	27.3	54.5
	60	2	9.1	9.1	63.6
	66.67	2	9.1	9.1	72.7
	73.33	3	13.6	13.6	86.4
	80	3	13.6	13.6	100.0
	Total	22	100.0	100.0	

Sikap

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	70	4	18.2	18.2	18.2
	80	13	59.1	59.1	77.3
	90	5	22.7	22.7	100.0
Total		22	100.0	100.0	

Statistics

		Pengetahuan	Sikap
N	Valid	22	22
	Missing	0	0
Mean		50.3023	75.4545
Median		53.3300	80.0000
Std. Deviation		17.42377	1.33550E1

Pengetahuan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	13.33	1	4.5	4.5	4.5
	20	1	4.5	4.5	9.1
	26.67	2	9.1	9.1	18.2
	40	3	13.6	13.6	31.8
	46.67	1	4.5	4.5	36.4
	53.33	6	27.3	27.3	63.6
	60	4	18.2	18.2	81.8
	66.67	1	4.5	4.5	86.4
	73.33	2	9.1	9.1	95.5
	80	1	4.5	4.5	100.0
	Total	22	100.0	100.0	

Sikap

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	40	1	4.5	4.5	4.5
	50	1	4.5	4.5	9.1
	60	1	4.5	4.5	13.6
	70	7	31.8	31.8	45.5
	80	6	27.3	27.3	72.7
	90	6	27.3	27.3	100.0
	Total	22	100.0	100.0	

UNIVARIAT POST-PERLAKUAN

Statistics

		Pengetahuan	Sikap
N	Valid	22	22
	Missing	0	0
Mean		68.7877	90.9091
Median		66.6700	1.0000E2
Std. Deviation		13.07448	1.77037E1

Pengetahuan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	53.33	4	18.2	18.2	18.2
	60	4	18.2	18.2	36.4
	66.67	7	31.8	31.8	68.2
	73.33	2	9.1	9.1	77.3
	80	1	4.5	4.5	81.8
	86.67	1	4.5	4.5	86.4
	93.33	3	13.6	13.6	100.0
	Total	22	100.0	100.0	

Sikap

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	40	1	4.5	4.5	4.5
	50	1	4.5	4.5	9.1
	60	1	4.5	4.5	13.6
	80	1	4.5	4.5	18.2
	90	3	13.6	13.6	31.8
	100	15	68.2	68.2	100.0
	Total	22	100.0	100.0	

PAIRED SAMPLE T-TEST pengetahuan kontrol

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Pretest	45.1523	22	15.38568	3.28024
Posttest	57.5750	22	15.33306	3.26902

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Pretest & Posttest	22	.603	.003

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	-1.24227E1	13.69243	2.91924	-18.49361	-6.35184	-4.255	21	.000

PAIRED SAMPLE T-TEST pengetahuan perlakuan

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Pretest	50.3023	22	17.42377	3.71476
Posttest	68.7877	22	13.07448	2.78749

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Pretest & Posttest	22	.671	.001

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	-1.84855E1	13.00098	2.77182	-24.24977	-12.72114	-6.669	21	.000

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Pretest	22	77.7273	12.31794	50.00	90.00
Posttest	22	89.0909	13.76991	60.00	100.00

Ranks

		N	Mean Rank	Sum of Ranks
Posttest - Pretest	Negative Ranks	4 ^a	9.00	36.00
	Positive Ranks	16 ^b	10.88	174.00
	Ties	2 ^c		
	Total	22		

a. Posttest < Pretest

b. Posttest > Pretest

c. Posttest = Pretest

Test Statistics^b

	Posttest - Pretest
Z	-2.617 ^a
Asymp. Sig. (2-tailed)	.009

a. Based on negative ranks.

b. Wilcoxon Signed Ranks Test

WILCOXON sikap perlakuan

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Pretest	22	75.4545	13.35496	40.00	90.00
Posttest	22	90.9091	17.70367	40.00	100.00

Ranks

		N	Mean Rank	Sum of Ranks
Posttest - Pretest	Negative Ranks	1 ^a	3.50	3.50
	Positive Ranks	16 ^b	9.34	149.50
	Ties	5 ^c		
	Total	22		

a. Posttest < Pretest

b. Posttest > Pretest

c. Posttest = Pretest

Test Statistics^b

	Posttest - Pretest
Z	-3.495 ^a
Asymp. Sig. (2-tailed)	.000

a. Based on negative ranks.

b. Wilcoxon Signed Ranks Test

Independen t-test pengetahuan pretest kontrol dan perlakuan

Group Statistics

VAR00002	N	Mean	Std. Deviation	Std. Error Mean
1	22	45.1523	15.38568	3.28024
2	22	49.9991	16.93355	3.61024

Independent Samples Test

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
VAR00001	Equal variances assumed	.328	.570	-.994	42	.326	-4.84682	4.87789	-14.69080	4.99716
	Equal variances not assumed			-.994	41.620	.326	-4.84682	4.87789	-14.69347	4.99983

Ket var 1 = kontrol

Var 2 = perlakuan

Independen t-test pengetahuan posttest kontrol dan perlakuan

Group Statistics

VAR00002	N	Mean	Std. Deviation	Std. Error Mean
1	22	57.5750	15.33306	3.26902
2	22	68.7877	13.07448	2.78749

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
VAR00001	Equal variances assumed	.902	.348	-2.610	42	.012	-11.21273	4.29611	-19.88263	-2.54282
	Equal variances not assumed			-2.610	40.977	.013	-11.21273	4.29611	-19.88905	-2.53640

Ket var 1 = kontrol

Var 2 = perlakuan

MANN WHITNEY sikap pretest kontrol dan perlakuan

Ranks

VAR00002	N	Mean Rank	Sum of Ranks
Sikap 1	22	23.70	521.50
2	22	21.30	468.50
Total	44		

Test Statistics^a

	Sikap
Mann-Whitney U	215.500
Wilcoxon W	468.500
Z	-.646
Asymp. Sig. (2-tailed)	.518

a. Grouping Variable: VAR00002

MANN WHITNEY sikap posttest kontrol dan perlakuan

Ranks

VAR00002	N	Mean Rank	Sum of Ranks
Sikap 1	22	15.36	338.00
2	22	29.64	652.00
Total	44		

Test Statistics^a

	Sikap
Mann-Whitney U	85.000
Wilcoxon W	338.000
Z	-3.838
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: VAR00002

Ket var 1 = kontrol

Var 2 = perlakuan

Homogenitas pengetahuan

Descriptives

PENGETAHUAN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	10	63.00	9.487	3.000	56.21	69.79	50	80
2	10	66.00	8.433	2.667	59.97	72.03	50	80
Total	20	64.50	8.870	1.983	60.35	68.65	50	80

Test of Homogeneity of Variances

PENGETAHUAN

Levene Statistic	df1	df2	Sig.
.140	1	18	.712

Homogenitas sikap

Descriptives

sikap

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	10	80.00	18.856	5.963	66.51	93.49	40	100
2	10	92.00	10.328	3.266	84.61	99.39	80	100
Total	20	86.00	16.026	3.584	78.50	93.50	40	100

Test of Homogeneity of Variances

sikap

Levene Statistic	df1	df2	Sig.
.288	1	18	.598

Ket:

1= kelompok kontrol

2= kelompok perlakuan

Standar error sikap perlakuan pre-post test wilcoxon

Statistics

		Pretest	Posttest
N	Valid	22	22
	Missing	0	0
Mean		75.4545	90.9091
Std. Error of Mean		2.84729	3.77444
Median		80.0000	1.0000E2
Std. Deviation		1.33550E1	1.77037E1

Standar error sikap kontrol pre-post test wilcoxon

Statistics

		Pretest	Posttest
N	Valid	22	22
	Missing	0	0
Mean		77.7273	80.4545
Std. Error of Mean		2.62619	1.39220
Median		80.0000	80.0000
Std. Deviation		1.23179E1	6.52998

Selisih perlakuan

Statistics

		selisih_pengetahuan	selisih_sikap
N	Valid	22	22
	Missing	0	0
Mean		18.48	15.455
Std. Error of Mean		2.772	2.9223
Median		16.66	15.000
Std. Deviation		13.002	13.7069
Skewness		.224	-.043
Std. Error of Skewness		.491	.491
Minimum		-7	-10.0
Maximum		47	40.0

selisih_pengetahuan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	-6.67	1	4.5	4.5	4.5
	0	2	9.1	9.1	13.6
	6.67	1	4.5	4.5	18.2
	13.33	7	31.8	31.8	50.0
	20	4	18.2	18.2	68.2
	26.67	3	13.6	13.6	81.8
	33.33	2	9.1	9.1	90.9
	40	1	4.5	4.5	95.5
	46.67	1	4.5	4.5	100.0
	Total	22	100.0	100.0	

selisih_sikap

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	-10	1	4.5	4.5	4.5
	0	5	22.7	22.7	27.3
	10	5	22.7	22.7	50.0
	20	4	18.2	18.2	68.2
	30	6	27.3	27.3	95.5
	40	1	4.5	4.5	100.0
	Total	22	100.0	100.0	

Selisih kontrol

Statistics

		selisih_pengetahuan	selisih_sikap
N	Valid	22	22
	Missing	0	0
Mean		12.42	2.727
Std. Error of Mean		2.919	2.7273
Median		13.33	.000
Std. Deviation		13.693	12.7920
Skewness		-.524	1.087
Std. Error of Skewness		.491	.491
Minimum		-20	-20.0
Maximum		40	40.0

selisih_pengetahuan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	-20	1	4.5	4.5	4.5
	-13.33	1	4.5	4.5	9.1
	0	3	13.6	13.6	22.7
	6.67	3	13.6	13.6	36.4
	13.33	5	22.7	22.7	59.1
	20	5	22.7	22.7	81.8
	26.67	3	13.6	13.6	95.5
	40	1	4.5	4.5	100.0
	Total	22	100.0	100.0	

selisih_sikap

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	-20	1	4.5	4.5	4.5
	-10	4	18.2	18.2	22.7
	0	10	45.5	45.5	68.2
	10	4	18.2	18.2	86.4
	20	2	9.1	9.1	95.5
	40	1	4.5	4.5	100.0
	Total	22	100.0	100.0	

Perbedaan selisih pengetahuan

Group Statistics

VAR00002	N	Mean	Std. Deviation	Std. Error Mean
1	22	12.4245	13.69279	2.91931
2	22	18.4841	13.00179	2.77199

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
VAR00001	Equal variances assumed	.009	.923	-1.505	42	.140	-6.05955	4.02571	-14.18375	2.06466
	Equal variances not assumed			-1.505	41.888	.140	-6.05955	4.02571	-14.18440	2.06531

Ket:

1 = kontrol

2 = perlakuan

Perbedaan selisih sikap

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
VAR00001	44	9.0909	14.59821	-20.00	40.00
VAR00002	44	1.5000	.50578	1.00	2.00

Ranks

VAR00002	N	Mean Rank	Sum of Ranks
1	22	16.89	371.50
2	22	28.11	618.50
Total	44		

Test Statistics^a

	VAR00001
Mann-Whitney U	118.500
Wilcoxon W	371.500
Z	-2.981
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable: VAR00002

Ket:

1 = kontrol

2 = perlakuan