

1. HASIL UJI BIVARIAT (*Paired sample t – test* dan *Uji Wilcoxon*)

a. Kelompok Perlakuan

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Skor Pengetahuan Pre-test Perlakuan Kipas Lipat	49.2057	21	13.57759	2.96287
	Skor Pengetahuan Post-test1 Perlakuan Kipas Lipat	79.3643	21	7.86215	1.71566

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	Skor Pengetahuan Pre-test Perlakuan Kipas Lipat - Skor Pengetahuan Post-test1 Perlakuan Kipas Lipat	-30.15857	13.76321	3.00338	-36.42351	-23.89364	-10.042	20	.000

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Skor Pengetahuan Pre-test Perlakuan Kipas Lipat	49.2057	21	13.57759	2.96287
	Skor Pengetahuan Post-test2 Perlakuan Kipas Lipat	84.7614	21	7.34648	1.60313

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	Skor Pengetahuan Pre-test Perlakuan Kipas Lipat - Skor Pengetahuan Post-test2 Perlakuan Kipas Lipat	-35.55571	13.71709	2.99331	-41.79966	-29.31177	-11.878	20	.000

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Skor Sikap Pre-test Perlakuan Kipas Lipat	66.6662	21	22.36105	4.87958
	Skor Sikap Post-test1 Perlakuan Kipas Lipat	87.3024	21	10.07599	2.19876

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	Skor Sikap Pre-test Perlakuan Kipas Lipat - Skor Sikap Post-test1 Perlakuan Kipas Lipat	-20.63619	18.37320	4.00936	-28.99957	-12.27281	-5.147	20	.000

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Skor Sikap Pre-test Perlakuan Kipas Lipat	21	66.6662	22.36105	25.00	91.67
Skor Sikap Post-test2 Perlakuan Kipas Lipat	21	86.1110	12.72952	41.67	100.00

Ranks

	N	Mean Rank	Sum of Ranks
Skor Sikap Post-test2 Perlakuan Kipas Lipat - Skor Sikap Pre-test Perlakuan Kipas Lipat	Negative Ranks	1 ^a	6.00
	Positive Ranks	15 ^b	130.00
	Ties	5 ^c	
	Total	21	

- a. Skor Sikap Post-test2 Perlakuan Kipas Lipat < Skor Sikap Pre-test Perlakuan Kipas Lipat
- b. Skor Sikap Post-test2 Perlakuan Kipas Lipat > Skor Sikap Pre-test Perlakuan Kipas Lipat
- c. Skor Sikap Post-test2 Perlakuan Kipas Lipat = Skor Sikap Pre-test Perlakuan Kipas Lipat

Test Statistics^b

	Skor Sikap Post-test2 Perlakuan Kipas Lipat - Skor Sikap Pre-test Perlakuan Kipas Lipat
Z	-3.210 ^a
Asymp. Sig. (2-tailed)	.001

- a. Based on negative ranks.
- b. Wilcoxon Signed Ranks Test

b. Kelompok Kontrol

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Skor Pengetahuan Pre-test Kontrol	47.6195	21	14.49720	3.16355
	Skor Pengetahuan Post-test1 Kontrol	45.7143	21	13.21308	2.88333

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	Skor Pengetahuan Pre-test Kontrol - Skor Pengetahuan Post-test1 Kontrol	1.90524	14.00840	3.05688	-4.47131	8.28179	.623	20	.540

Ranks			
	N	Mean Rank	Sum of Ranks
Skor Pengetahuan Post-test2 Negative Ranks	6 ^a	10.00	60.00
Kontrol - Skor Pengetahuan Positive Ranks	12 ^b	9.25	111.00
Pre-test Kontrol			
Ties	3 ^c		
Total	21		

a. Skor Pengetahuan Post-test2 Kontrol < Skor Pengetahuan Pre-test Kontrol

b. Skor Pengetahuan Post-test2 Kontrol > Skor Pengetahuan Pre-test Kontrol

c. Skor Pengetahuan Post-test2 Kontrol = Skor Pengetahuan Pre-test Kontrol

Test Statistics ^b	
	Skor Pengetahuan Post-test2 Kontrol - Skor Pengetahuan Pre-test Kontrol
Z	-1.117 ^a
Asymp. Sig. (2-tailed)	.264

a. Based on negative ranks.

b. Wilcoxon Signed Ranks Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Skor Sikap Pre-test Kontrol	69.0638	21	19.18781	4.18712
	Skor Sikap Post-test1 Kontrol	69.4438	21	20.46960	4.46683

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	Skor Sikap Pre-test Kontrol - Skor Sikap Post-test1 Kontrol	-.38000	9.66242	2.10851	-4.77828	4.01828	-.180	20	.859

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Skor Sikap Pre-test Kontrol	69.0638	21	19.18781	4.18712
	Skor Sikap Post-test2 Kontrol	72.6186	21	18.09384	3.94840

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	Skor Sikap Pre-test Kontrol - Skor Sikap Post-test2 Kontrol	-3.55476	8.14205	1.77674	-7.26098	.15145	-2.001	20	.059

2. HASIL UJI BIVARIAT PERBEDAAN DUA KELOMPOK (*Independent Sample t- test & Mann Whitney*)

a. Pengetahuan

Group Statistics

Jenis Kelompok	N	Mean	Std. Deviation	Std. Error Mean
PPost1 Perlakuan	21	79.3643	7.86215	1.71566
Kontrol	21	45.7143	13.21308	2.88333

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
PPost1	Equal variances assumed	2.501	.122	10.029	40	.000	33.65000	3.35516	26.86897	40.43103
	Equal variances not assumed			10.029	32.585	.000	33.65000	3.35516	26.82057	40.47943

Group Statistics

Jenis Kelompok	N	Mean	Std. Deviation	Std. Error Mean
PPost2 Perlakuan	21	84.7614	7.34648	1.60313
Kontrol	21	51.7457	11.13693	2.43028

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
PPost2	Equal variances assumed	.493	.487	11.340	40	.000	33.01571	2.91141	27.13154	38.89989
	Equal variances not assumed			11.340	34.635	.000	33.01571	2.91141	27.10302	38.92841

b. Sikap

Group Statistics

Jenis Kelompok	N	Mean	Std. Deviation	Std. Error Mean
SPost1 Perlakuan	21	87.3024	10.07599	2.19876
Kontrol	21	69.4438	20.46960	4.46683

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
SPost1	Equal variances assumed	18.308	.000	3.587	40	.001	17.85857	4.97867	7.79630	27.92084
	Equal variances not assumed			3.587	29.155	.001	17.85857	4.97867	7.67839	28.03875

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
SPost2	42	79.3648	16.89279	41.67	100.00
Jenis Kelompok	42	1.50	.506	1	2

Ranks

Jenis Kelompok	N	Mean Rank	Sum of Ranks
SPost2 Perlakuan	21	25.98	545.50
Kontrol	21	17.02	357.50
Total	42		

Test Statistics^a

	SPost2
Mann-Whitney U	126.500
Wilcoxon W	357.500
Z	-2.418
Asymp. Sig. (2-tailed)	.016

a. Grouping Variable: Jenis Kelompok