Lampiran 4 (L4) Uji Statistik

L4.1 Uji Normalitas dan Homogenitas Sebelum Data Ditransformasi

One-Sample Kolmogorov-Smirnov Test

		Koloni
N		21
Normal Parameters[a]	Mean	16.7143
	Std. Deviation	1.99026E1
Most Extreme Differences	Absolute	.215
	Positive	.215
	Negative	-.201-
Kolmogorov-Smirnov Z		.984
Asymp. Sig. (2-tailed)		.288

a. Test distribution is Normal.

Test of Homogeneity of Variances

Koloni

Levene Statistic	df1	df2	Sig.
6.106	6	14	.003

L4.2 Uji Normalitas dan Homogenitas Setelah Data Ditransformasi

One-Sample Kolmogorov-Smirnov Test

		Transformasi
N		15
Normal Parameters[a]	Mean	2.5533
	Std. Deviation	1.39155
Most Extreme Differences	Absolute	.212
	Positive	.123
	Negative	-.212-
Kolmogorov-Smirnov Z		.822
Asymp. Sig. (2-tailed)		.508

a. Test distribution is Normal.

Test of Homogeneity of Variances

Transformasi

Levene Statistic	df1	df2	Sig.
2.410	5	9	.119

L4.3 Uji Perbandingan *One-Way ANOVA*

Oneway

Descriptives

Transformasi

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	Between-Component Variance
						Lower Bound	Upper Bound			
37.5		3	3.7967	.32332	.18667	2.9935	4.5998	3.61	4.17	
38		3	3.4600	.55245	.31896	2.0876	4.8324	2.94	4.04	
38.5		3	3.1367	.38475	.22214	2.1809	4.0924	2.89	3.58	
39		2	2.5200	.05657	.04000	2.0118	3.0282	2.48	2.56	
39.5		2	1.0400	.49497	.35000	-3.4072-	5.4872	.69	1.39	
40		2	.0000	.00000	.00000	.0000	.0000	.00	.00	
Total		15	2.5533	1.39155	.35930	1.7827	3.3240	.00	4.17	
Model	Fixed Effects			.38926	.10051	2.3260	2.7807			
	Random Effects				.59950	1.0123	4.0944			2.01521

ANOVA

Transformasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	25.746	5	5.149	33.983	.000
Within Groups	1.364	9	.152		
Total	27.110	14			

L4.4 Uji *Post Hoc Tukey*

Post Hoc Tests

Multiple Comparisons

Transformasi

Tukey HSD

(I) Konsentrasi	(J) Konsentrasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
37.5	38	.33667	.31783	.886	-.7923-	1.4657
	38.5	.66000	.31783	.375	-.4690-	1.7890
	39	1.27667*	.35535	.047	.0144	2.5389
	39.5	2.75667*	.35535	.000	1.4944	4.0189
	40	3.79667*	.35535	.000	2.5344	5.0589
38	37.5	-.33667-	.31783	.886	-1.4657-	.7923
	38.5	.32333	.31783	.901	-.8057-	1.4523
	39	.94000	.35535	.180	-.3223-	2.2023
	39.5	2.42000*	.35535	.001	1.1577	3.6823
	40	3.46000*	.35535	.000	2.1977	4.7223
38.5	37.5	-.66000-	.31783	.375	-1.7890-	.4690
	38	-.32333-	.31783	.901	-1.4523-	.8057
	39	.61667	.35535	.544	-.6456-	1.8789
	39.5	2.09667*	.35535	.002	.8344	3.3589
	40	3.13667*	.35535	.000	1.8744	4.3989
39	37.5	-1.27667*	.35535	.047	-2.5389-	-.0144-
	38	-.94000-	.35535	.180	-2.2023-	.3223
	38.5	-.61667-	.35535	.544	-1.8789-	.6456
	39.5	1.48000*	.38926	.035	.0973	2.8627
	40	2.52000*	.38926	.001	1.1373	3.9027

39.5	37.5	-2.75667*	.35535	.000	-4.0189-	-1.4944-
	38	-2.42000*	.35535	.001	-3.6823-	-1.1577-
	38.5	-2.09667*	.35535	.002	-3.3589-	-.8344-
	39	-1.48000*	.38926	.035	-2.8627-	-.0973-
	40	1.04000	.38926	.174	-.3427-	2.4227
40	37.5	-3.79667*	.35535	.000	-5.0589-	-2.5344-
	38	-3.46000*	.35535	.000	-4.7223-	-2.1977-
	38.5	-3.13667*	.35535	.000	-4.3989-	-1.8744-
	39	-2.52000*	.38926	.001	-3.9027-	-1.1373-
	39.5	-1.04000-	.38926	.174	-2.4227-	.3427

*. The mean difference is significant at the 0.05 level.

L4.5 Tabel *Homogeneous Subsets* Untuk Konfirmasi Uji *Post Hoc Tukey*

Transformasi

Tukey HSD

Konsentrasi	N	Subset for alpha = 0.05		
		1	2	3
40	2	.0000		
39.5	2	1.0400		
39	2		2.5200	
38.5	3		3.1367	3.1367
38	3		3.4600	3.4600
37.5	3			3.7967
Sig.		.122	.180	.480

Means for groups in homogeneous subsets are displayed.

L4.6 Uji Korelasi

Correlations

		Konsentrasi	Transformasi
Konsentrasi	Pearson Correlation	1	-.933**
	Sig. (2-tailed)		.000
	N	21	15
Transformasi	Pearson Correlation	-.933**	1
	Sig. (2-tailed)	.000	
	N	15	15

**. Correlation is significant at the 0.01 level (2-tailed).

L4.7 Uji Regresi Linier

Variables Entered/Removed[b]

Model	Variables Entered	Variables Removed	Method
1	Konsentrasi[a]	.	Enter

a. All requested variables entered.

b. Dependent Variable: Transformasi

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.933[a]	.870	.860	.52103	.870	86.862	1	13	.000

a. Predictors: (Constant), Konsentrasi

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	60.126	6.179		9.731	.000
	Konsentrasi	-1.492-	.160	-.933-	-9.320-	.000

a. Dependent Variable: Transformasi

L4.8 Gambar Grafik Linieritas