Mulitple Regression (Regresi Linier Berganda)

Variables Entered/Removed[b]

Model	Variables Entered	Variables Removed	Method
1	Iklim Komunikasi Kelas, Motivasi Belajar[a]	,	Enter

a. All requested variables entered.

b. Dependent Variable: Hasil Belajar Kimia

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,695[a]	,483	,478	2,44

a. Predictors: (Constant), Iklim Komunikasi Kelas, Motivasi Belajar

ANOVA[b]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1160,270	2	580,135	97,155	,000[a]
	Residual	1242,014	208	5,971		
	Total	2402,284	210			

a. Predictors: (Constant), Iklim Komunikasi Kelas, Motivasi Belajar

b. Dependent Variable: Hasil Belajar Kimia

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	25,813	3,882		6,650	,000
	Motivasi Belajar	,373	,050	,430	7,470	,000
	Iklim Komunikasi Kelas	,305	,047	,373	6,478	,000

a. Dependent Variable: Hasil Belajar Kimia

Regression for Multicollinearity test

Variables Entered/Removed[b]

Model	Variables Entered	Variables Removed	Method
1	Iklim Komunikasi Kelas, Motivasi Belajar[a]	,	Enter

a. All requested variables entered.

b. Dependent Variable: Hasil Belajar Kimia

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,695[a]	,483	,478	2,44

a. Predictors: (Constant), Iklim Komunikasi Kelas, Motivasi Belajar

ANOVA[b]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1160,270	2	580,135	97,155	,000[a]
	Residual	1242,014	208	5,971		
	Total	2402,284	210			

a. Predictors: (Constant), Iklim Komunikasi Kelas, Motivasi Belajar

b. Dependent Variable: Hasil Belajar Kimia

Coefficients[a]

Model		Collinearity Statistics	
		Tolerance	VIF
1	Motivasi Belajar	,751	1,331
	Iklim Komunikasi Kelas	,751	1,331

a. Dependent Variable: Hasil Belajar Kimia

Collinearity Diagnostics[a]

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Motivasi Belajar	Iklim Komunikasi Kelas
1	1	2,997	1,000	,00	,00	,00
	2	1,350E-03	47,116	,45	,07	,93
	3	1,174E-03	50,533	,55	,93	,07

a. Dependent Variable: Hasil Belajar Kimia

Regression for SE & SR

Descriptive Statistics

	Mean	Std. Deviation	N
Hasil Belajar Kimia	79,87	3,38	211
Motivasi Belajar	79,71	3,89	211
Iklim Komunikasi Kelas	79,63	4,13	211

Correlations

		Hasil Belajar Kimia	Motivasi Belajar	Iklim Komunikasi Kelas
Pearson Correlation	Hasil Belajar Kimia	1,000	,615	,587
	Motivasi Belajar	,615	1,000	,499
	Iklim Komunikasi Kelas	,587	,499	1,000
Sig. (1-tailed)	Hasil Belajar Kimia	,	,000	,000
	Motivasi Belajar	,000	,	,000
	Iklim Komunikasi Kelas	,000	,000	,
N	Hasil Belajar Kimia	211	211	211
	Motivasi Belajar	211	211	211
	Iklim Komunikasi Kelas	211	211	211

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,695[a]	,483	,478	2,44

a. Predictors: (Constant), Iklim Komunikasi Kelas, Motivasi Belajar

ANOVA[b]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1160,270	2	580,135	97,155	,000[a]
	Residual	1242,014	208	5,971		
	Total	2402,284	210			

a. Predictors: (Constant), Iklim Komunikasi Kelas, Motivasi Belajar

b. Dependent Variable: Hasil Belajar Kimia

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	25,813	3,882		6,650	,000
	Motivasi Belajar	,373	,050	,430	7,470	,000
	Iklim Komunikasi Kelas	,305	,047	,373	6,478	,000

a. Dependent Variable: Hasil Belajar Kimia

Regression Autocorelation test

Variables Entered/Removed[b]

Model	Variables Entered	Variables Removed	Method
1	Iklim Komunikasi Kelas, Motivasi Belajar[a]	,	Enter

a. All requested variables entered.

b. Dependent Variable: Hasil Belajar Kimia

Model Summary[b]

Model	Durbin-Watson
1	2,313[a]

a. Predictors: (Constant), Iklim Komunikasi Kelas, Motivasi Belajar

b. Dependent Variable: Hasil Belajar Kimia

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	25,813	3,882		6,650	,000
	Motivasi Belajar	,373	,050	,430	7,470	,000
	Iklim Komunikasi Kelas	,305	,047	,373	6,478	,000

a. Dependent Variable: Hasil Belajar Kimia

Casewise Diagnostics[a]

Case Number	Std. Residual	Hasil Belajar Kimia
2	-3,617	72
150	3,565	85

a. Dependent Variable: Hasil Belajar Kimia

Residuals Statistics[a]

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	71,41	86,88	79,87	2,35	211
Residual	-8,84	8,71	-1,75E-15	2,43	211
Std. Predicted Value	-3,599	2,982	,000	1,000	211
Std. Residual	-3,617	3,565	,000	,995	211

a. Dependent Variable: Hasil Belajar Kimia

Frequencies

Statistics

		Motivasi Belajar	Iklim Komunikasi Kelas	Hasil Belajar Kimia
N	Valid	211	211	211
	Missing	0	0	0
Mean		79,71	79,63	79,87
Median		80,00	80,00	80,00
Mode		82	82	82
Std. Deviation		3,89	4,13	3,38
Range		21	25	17
Minimum		69	65	71
Maximum		90	90	88
Percentiles	100	90,00	90,00	88,00

Frequency Table

Motivasi Belajar

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	69	9	4,3	4,3	4,3
	72	5	2,4	2,4	6,6
	75	6	2,8	2,8	9,5
	76	13	6,2	6,2	15,6
	77	24	11,4	11,4	27,0
	78	13	6,2	6,2	33,2
	79	22	10,4	10,4	43,6
	80	23	10,9	10,9	54,5
	81	24	11,4	11,4	65,9
	82	26	12,3	12,3	78,2
	83	15	7,1	7,1	85,3
	84	14	6,6	6,6	91,9
	85	9	4,3	4,3	96,2
	86	5	2,4	2,4	98,6
	87	1	,5	,5	99,1
	90	2	,9	,9	100,0
	Total	211	100,0	100,0	

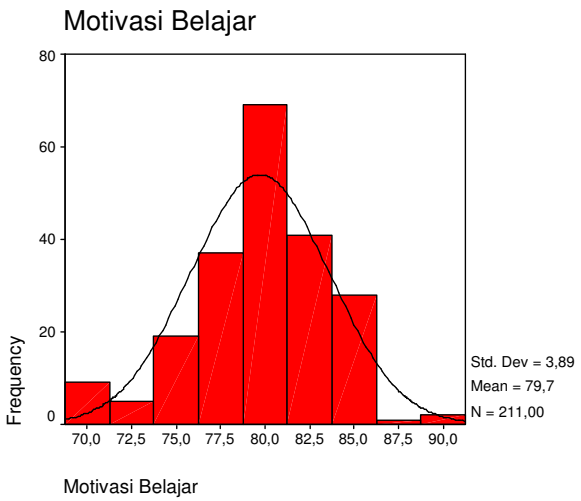
Iklim Komunikasi Kelas

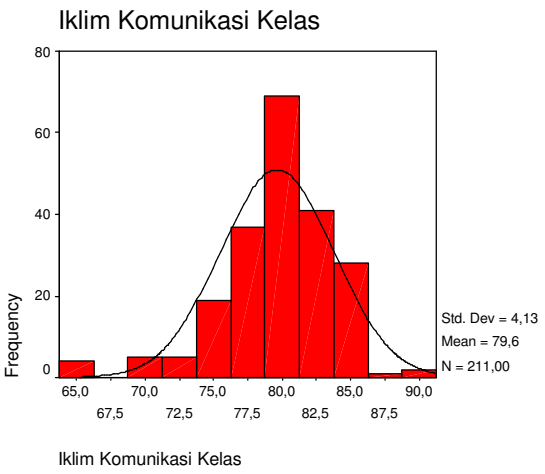
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	65	4	1,9	1,9	1,9
	69	5	2,4	2,4	4,3
	72	5	2,4	2,4	6,6
	75	6	2,8	2,8	9,5
	76	13	6,2	6,2	15,6
	77	24	11,4	11,4	27,0
	78	13	6,2	6,2	33,2
	79	22	10,4	10,4	43,6
	80	24	11,4	11,4	55,0
	81	23	10,9	10,9	65,9
	82	26	12,3	12,3	78,2
	83	15	7,1	7,1	85,3
	84	14	6,6	6,6	91,9
	85	9	4,3	4,3	96,2
	86	5	2,4	2,4	98,6
	87	1	,5	,5	99,1
	90	2	,9	,9	100,0
	Total	211	100,0	100,0	

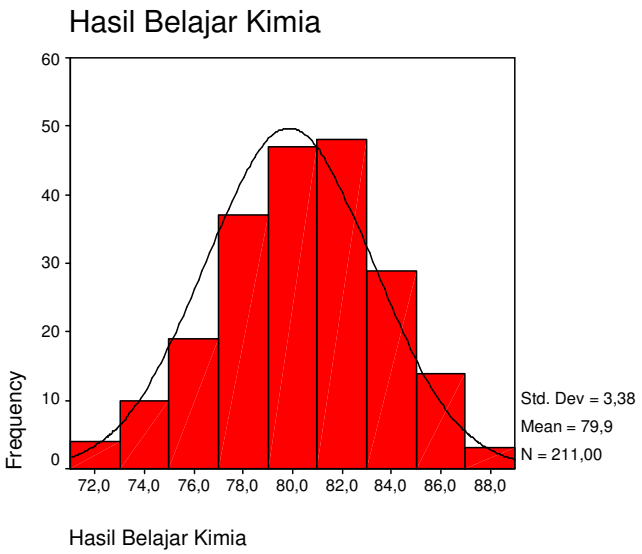
Hasil Belajar Kimia

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	71	1	,5	,5	,5
	72	3	1,4	1,4	1,9
	73	5	2,4	2,4	4,3
	74	5	2,4	2,4	6,6
	75	6	2,8	2,8	9,5
	76	13	6,2	6,2	15,6
	77	24	11,4	11,4	27,0
	78	13	6,2	6,2	33,2
	79	22	10,4	10,4	43,6
	80	25	11,8	11,8	55,5
	81	22	10,4	10,4	65,9
	82	26	12,3	12,3	78,2
	83	16	7,6	7,6	85,8
	84	13	6,2	6,2	91,9
	85	9	4,3	4,3	96,2
	86	5	2,4	2,4	98,6
	87	1	,5	,5	99,1
	88	2	,9	,9	100,0
	Total	211	100,0	100,0	

Histogram


Motivasi Belajar
Frequency
80
60
40
20
0
70,0
72,5
75,0
77,5
80,0
82,5
85,0
87,5
90,0
Std. Dev = 3,89
Mean = 79,7
N = 211,00
Motivasi Belajar


Iklim Komunikasi Kelas
Frequency
80
60
40
20
0
65,0
67,5
70,0
72,5
75,0
77,5
80,0
82,5
85,0
87,5
90,0
Std. Dev = 4,13
Mean = 79,6
N = 211,00
Iklim Komunikasi Kelas


Hasil Belajar Kimia
Frequency
60
50
40
30
20
10
0
72,0
74,0
76,0
78,0
80,0
82,0
84,0
86,0
88,0
Std. Dev = 3,38
Mean = 79,9
N = 211,00
Hasil Belajar Kimia

NPar for Normality Tests

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		211
Normal Parameters[a,b]	Mean	-4,7669593E-09
	Std. Deviation	2,4319446
Most Extreme Differences	Absolute	,078
	Positive	,078
	Negative	-,072
Kolmogorov-Smirnov Z		1,127
Asymp. Sig. (2-tailed)		,158

a. Test distribution is Normal.

b. Calculated from data.

Regression for Heteroscedasticity test with LM Method

Variables Entered/Removed[b]

Model	Variables Entered	Variables Removed	Method
1	PRE^2[a]	,	Enter

a. All requested variables entered.

b. Dependent Variable: RES^2

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,084[a]	,007	,002	10,7226

a. Predictors: (Constant), PRE^2

ANOVA[b]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	170,615	1	170,615	1,484	,225[a]
	Residual	24029,573	209	114,974		
	Total	24200,188	210			

a. Predictors: (Constant), PRE^2

b. Dependent Variable: RES^2

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	21,352	12,717		1,679	,095
	PRE^2	-2,42E-03	,002	-,084	-1,218	,225

a. Dependent Variable: RES^2

Regression for Linearity test with LM Method

Variables Entered/Removed[b]

Model	Variables Entered	Variables Removed	Method
1	$X2^2$, $X1^2$[a]	,	Enter

a. All requested variables entered.

b. Dependent Variable: Unstandardized Residual

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,012[a]	,000	-,009	2,4434291

a. Predictors: (Constant), $X2^2$, $X1^2$

ANOVA[b]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	,182	2	9,124E-02	,015	,985[a]
	Residual	1241,832	208	5,970		
	Total	1242,014	210			

a. Predictors: (Constant), $X2^2$, $X1^2$

b. Dependent Variable: Unstandardized Residual

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-,132	1,985		-,067	,947
	$X1^2$	5,510E-05	,000	,014	,172	,863
	$X2^2$	-3,44E-05	,000	-,009	-,113	,910

a. Dependent Variable: Unstandardized Residual