

Hasil Analisis Deskriptif

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Pretest_Kemampuan_Pemecahan_masalah	Model Flipped Classroom	48	57.4688	7.63350	1.10180	55.2522	59.6853	42.50	71.00
	Model Direct E-Learning	48	53.9271	8.07214	1.16511	51.5832	56.2710	35.00	72.50
	Total	96	55.6979	8.01462	.81799	54.0740	57.3218	35.00	72.50
Posttest_Kemampuan_Pemecahan_masalah	Model Flipped Classroom	48	71.1563	8.61910	1.24406	68.6535	73.6590	53.50	86.00
	Model Direct E-Learning	48	58.8333	8.00089	1.15483	56.5101	61.1565	35.50	75.00
	Total	96	64.9948	10.33377	1.05469	62.9010	67.0886	35.50	86.00

Descriptives

Pretest_Kemampuan_Pemecahan_masalah

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Rendah	32	52.0781	7.31008	1.29225	49.4426	54.7137	35.00	65.50
Tinggi	32	59.8438	7.43731	1.31474	57.1623	62.5252	45.50	72.50
Total	64	55.9609	8.29625	1.03703	53.8886	58.0333	35.00	72.50

Descriptives

Posttest_Kemampuan_Pemecahan_masalah

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Rendah	32	62.2188	12.05360	2.13080	57.8730	66.5645	35.50	84.00
Tinggi	32	69.4375	8.51067	1.50449	66.3691	72.5059	55.50	86.00
Total	64	65.8281	10.97118	1.37140	63.0876	68.5686	35.50	86.00

Descriptives

Pretest_Kemampuan_Pemecahan_masalah

N	Mean	Std.	Std.	95% Confidence Interval for Mean	Minimum	Maximum
---	------	------	------	----------------------------------	---------	---------

			Deviation	Error	Lower Bound	Upper Bound		
Rendah	16	55.4375	6.86021	1.71505	51.7820	59.0930	42.50	65.50
Tinggi	16	59.6250	8.75500	2.18875	54.9598	64.2902	45.50	71.00
Total	32	57.5313	8.02409	1.41847	54.6383	60.4242	42.50	71.00

Descriptives

Posttest_Kemampuan_Pemecahan_masalah

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	95% Confidence Interval for Mean Upper Bound	Minimum	Maximum
Rendah	16	71.8438	7.47823	1.86956	67.8589	75.8286	59.00	84.00
Tinggi	16	75.5313	6.92933	1.73233	71.8389	79.2236	62.50	86.00
Total	32	73.6875	7.33501	1.29666	71.0429	76.3321	59.00	86.00

Descriptives

Pretest_Kemampuan_Pemecahan_masalah

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	95% Confidence Interval for Mean Upper Bound	Minimum	Maximum
Rendah	16	48.7188	6.26889	1.56722	45.3783	52.0592	35.00	56.50
Tinggi	16	60.0625	6.12883	1.53221	56.7967	63.3283	49.00	72.50
Total	32	54.3906	8.39041	1.48323	51.3656	57.4157	35.00	72.50

Descriptives

Posttest_Kemampuan_Pemecahan_masalah

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	95% Confidence Interval for Mean Upper Bound	Minimum	Maximum
Rendah	16	52.5938	6.83427	1.70857	48.9520	56.2355	35.50	63.00
Tinggi	16	63.3438	4.73891	1.18473	60.8186	65.8689	55.50	74.50
Total	32	57.9688	7.95546	1.40634	55.1005	60.8370	35.50	74.50

Kategori_Gain

Frequency	Percent	Valid Percent	Cumulative Percent
-----------	---------	---------------	--------------------

Valid	Rendah	17	35.4	35.4	35.4
	Sedang	25	52.1	52.1	87.5
	Terjadi Penurunan	6	12.5	12.5	100.0
	Total	48	100.0	100.0	

Kategori_Gain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rendah	37	77.1	77.1	77.1
	Sedang	5	10.4	10.4	87.5
	Terjadi Penurunan	6	12.5	12.5	100.0
	Total	48	100.0	100.0	

Kategori_Gain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rendah	37	77.1	77.1	77.1
	Sedang	5	10.4	10.4	87.5
	Terjadi Penurunan	6	12.5	12.5	100.0
	Total	48	100.0	100.0	

Kategori_Gain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rendah	16	50.0	50.0	50.0
	Sedang	11	34.4	34.4	84.4
	Terjadi Penurunan	5	15.6	15.6	100.0
	Total	32	100.0	100.0	

Kategori_Gain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rendah	4	25.0	25.0	25.0

	Sedang	11	68.8	68.8	93.8
	Terjadi Penurunan	1	6.3	6.3	100.0
	Total	16	100.0	100.0	

Kategori_Gain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rendah	3	18.8	18.8	18.8
	Sedang	11	68.8	68.8	87.5
	Terjadi Penurunan	2	12.5	12.5	100.0
	Total	16	100.0	100.0	

Kategori_Gain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rendah	14	87.5	87.5	87.5
	Sedang	1	6.3	6.3	93.8
	Terjadi Penurunan	1	6.3	6.3	100.0
	Total	16	100.0	100.0	

Kategori_Gain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rendah	13	81.3	81.3	81.3
	Terjadi Penurunan	3	18.8	18.8	100.0
	Total	16	100.0	100.0	

Hasil Uji Normalitas

Tests of Normality

Kelompok		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Pretest_Kemampuan_Pemecahan_masalah	Model Flipped Classroom	.107	48	.200*	.963	48	.135
	Model Direct E-Learning	.080	48	.200*	.979	48	.540
Posttest_Kemampuan_Pemecahan_masalah	Model Flipped Classroom	.110	48	.198	.955	48	.064
	Model Direct E-Learning	.094	48	.200*	.979	48	.550

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Tests of Normality

Pretest_Ketahanmalangan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Pretest_Kemampuan_Pemecahan_masalah	Rendah	.101	32	.200*	.980	32	.793
	Tinggi	.098	32	.200*	.961	32	.292

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Tests of Normality

Posttest_Ketahanmalangan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Posttest_Kemampuan_Pemecahan_masalah	Rendah	.105	32	.200*	.974	32	.628
	Tinggi	.188	32	.006	.936	32	.059

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Tests of Normality

	Pretest_Keta hanmalangan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Pretest_Kemampuan_Pemec	Rendah	.145	16	.200 [*]	.957	16	.615
ahan_masalah	Tinggi	.138	16	.200 [*]	.914	16	.134

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Tests of Normality

	Posttest_Keta hanmalangan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Posttest_Kemampuan_Pemec	Rendah	.101	16	.200 [*]	.961	16	.686
ahan_masalah	Tinggi	.174	16	.200 [*]	.943	16	.383

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Tests of Normality

	Pretest_Keta anmalangan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Pretest_Kemampuan_Pemec	Rendah	.204	16	.073	.912	16	.125
ahan_masalah	Tinggi	.135	16	.200 [*]	.968	16	.801

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Tests of Normality

	Posttest_Keta hanmalangan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Posttest_Kemampuan_Pemec	Rendah	.150	16	.200 [*]	.943	16	.389
ahan_masalah	Tinggi	.216	16	.044	.918	16	.158

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Hasil Uji Homogenitas

Levene's Test of Equality of Error Variances^{a,b}

		Levene Statistic	df1	df2	Sig.
Pretest_Kemampuan_Pemecahan_masalah	Based on Mean	1.806	3	60	.156
	Based on Median	1.588	3	60	.202
	Based on Median and with adjusted df	1.588	3	56.384	.203
	Based on trimmed mean	1.773	3	60	.162

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: Pretest_Kemampuan_Pemecahan_masalah

b. Design: Intercept + Kelompok + Pretest_Ketahanmalangan + Kelompok * Pretest_Ketahanmalangan

Levene's Test of Equality of Error Variances^{a,b}

		Levene Statistic	df1	df2	Sig.
Posttest_Kemampuan_Pemecahan_masalah	Based on Mean	1.442	3	60	.239
	Based on Median	1.089	3	60	.361
	Based on Median and with adjusted df	1.089	3	56.461	.361
	Based on trimmed mean	1.406	3	60	.250

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: Posttest_Kemampuan_Pemecahan_masalah

b. Design: Intercept + Kelompok + Posttest_Ketahanmalangan + Kelompok * Posttest_Ketahanmalangan

Hasil Uji ANOVA

Tests of Between-Subjects Effects

Dependent Variable: Pretest_Kemampuan_Pemecahan_masalah

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1327.543 ^a	3	442.514	8.825	.000
Intercept	200424.098	1	200424.098	3997.011	.000
Kelompok	157.816	1	157.816	3.147	.081
Pretest_Ketahanmalangan	964.879	1	964.879	19.242	.000
Kelompok * Pretest_Ketahanmalangan	204.848	1	204.848	4.085	.048
Error	3008.609	60	50.143		
Total	204760.250	64			
Corrected Total	4336.152	63			

a. R Squared = .306 (Adjusted R Squared = .271)



Tests of Between-Subjects Effects

Dependent Variable: Posttest_Kemampuan_Pemecahan_masalah

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4986.547 ^a	3	1662.182	38.409	.000
Intercept	277333.891	1	277333.891	6408.486	.000
Kelompok	3953.266	1	3953.266	91.350	.000
Posttest_Ketahanmalangan	833.766	1	833.766	19.266	.000
Kelompok * Posttest_Ketahanmalangan	199.516	1	199.516	4.610	.036
Error	2596.563	60	43.276		
Total	284917.000	64			
Corrected Total	7583.109	63			

a. R Squared = .658 (Adjusted R Squared = .640)

Hasil Independent T Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
Posttest_Kemampuan_Pemecahan_masalah	Model Flipped Classroom	16	75.5313	6.92933	1.73233
	Model Direct E-Learning	16	63.3438	4.73891	1.18473

Independent Samples Test

		Levene's Test for Equality of Variance		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
Posttest_Kemampuan_Pemecahan_masalah	Equal variances assumed	2.939	.097	5.807	30	.000	12.18750	2.09870	7.90138	16.47362
	Equal variances not assumed			5.807	26.513	.000	12.18750	2.09870	7.87761	16.49739

Independent Samples Effect Sizes

		Standardizer ^a	Point Estimate	95% Confidence Interval	
				Lower	Upper
Posttest_Kemampuan_Pemecahan_masalah	Cohen's d	5.93603	2.053	1.177	2.907
	Hedges' correction	6.08977	2.001	1.148	2.833
	Glass's delta	4.73891	2.572	1.411	3.701

a. The denominator used in estimating the effect sizes.

Cohen's d uses the pooled standard deviation.

Hedges' correction uses the pooled standard deviation, plus a correction factor.

Glass's delta uses the sample standard deviation of the control group.

Group Statistics

Kelompok		N	Mean	Std. Deviation	Std. Error Mean
Posttest_Kemampuan_Pemecahan_masalah	Model Flipped Classroom	16	71.8438	7.47823	1.86956
	Model Direct E-Learning	16	52.5938	6.83427	1.70857

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

Posttest_Kemampuan_Pemecahan_masalah	Equal variances assumed	.372	.547	7.601	30	.000	19.25000	2.532680	14.07758	24.42242
	Equal variances not assumed			7.601	29.760	.000	19.25000	2.532680	14.07583	24.42417

Independent Samples Effect Sizes

	Standardizer ^a	Point Estimate	95% Confidence Interval	
			Lower	Upper
Posttest_Kemampuan_Pemecahan_masalah	Cohen's d	7.16349	2.687	1.707 3.644
	Hedges' correction	7.34902	2.619	1.664 3.552
	Glass's delta	6.83427	2.817	1.586 4.016

a. The denominator used in estimating the effect sizes.

Cohen's d uses the pooled standard deviation.

Hedges' correction uses the pooled standard deviation, plus a correction factor.

Glass's delta uses the sample standard deviation of the control group.

