

Lampiran 29

Uji Hipotesis Keterampilan Berpikir Kritis dan Kerja Ilmiah

Between-Subjects Factors

		Value Label	N
hasil_penilaian	1	pretest	54
	2	kerja_ilmiah	54
	3	KBK_kognitif	54
kelas_eksperimen	1	pendekatan_disc overy	81
	2	pendekatan_verif ikasi	81

Descriptive Statistics

Dependent Variable: nilai

hasil_penilaian	kelas_eksperimen	Mean	Std. Deviation	N
pretest	pendekatan_discovery	34.8404	10.90118	27
	pendekatan_verifikasi	34.8404	10.90118	27
	Total	34.8404	10.79785	54
kerja_ilmiah	pendekatan_discovery	79.1704	6.52827	27
	pendekatan_verifikasi	74.0778	8.11799	27
	Total	76.6241	7.73578	54
KBK_kognitif	pendekatan_discovery	59.6652	9.53502	27
	pendekatan_verifikasi	54.1693	10.42698	27
	Total	56.9172	10.27763	54
Total	pendekatan_discovery	57.8920	20.37722	81
	pendekatan_verifikasi	54.3625	18.84665	81
	Total	56.1272	19.64573	162

Levene's Test of Equality of Error Variances^a

Dependent Variable: nilai

F	df1	df2	Sig.
2.335	5	156	.045

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

a. Design: Intercept + variabel + kelas + variabel * kelas

Tests of Between-Subjects Effects

Dependent Variable: nilai

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	47947.141 ^a	5	9589.428	105.411	.000
Intercept	510342.942	1	510342.942	5609.909	.000
variabel	47189.255	2	23594.628	259.362	.000
kelas	504.525	1	504.525	5.546	.020
variabel * kelas	253.361	2	126.680	1.393	.252
Error	14191.586	156	90.972		
Total	572481.669	162			
Corrected Total	62138.727	161			

a. R Squared = ,772 (Adjusted R Squared = ,764)

Estimated Marginal Means

1. hasil_penilaian

Dependent Variable: nilai

hasil_penilaian	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
pretest	34.840	1.298	32.277	37.404
kerja_ilmiah	76.624	1.298	74.060	79.188
KBK_kognitif	56.917	1.298	54.353	59.481

2. kelas_eksperimen

Dependent Variable: nilai

kelas_eksperimen	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
pendekatan_discovery	57.892	1.060	55.799	59.985
pendekatan_verifikasi	54.362	1.060	52.269	56.456

3. kelas_eksperimen * hasil_penilaian

Dependent Variable: nilai

kelas_eksperimen	hasil_penilaian	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
pendekatan_discovery	pretest	34.840	1.836	31.215	38.466
	kerja_ilmiah	79.170	1.836	75.545	82.796
	KBK_kognitif	59.665	1.836	56.039	63.291
pendekatan_verifikasi	pretest	34.840	1.836	31.215	38.466
	kerja_ilmiah	74.078	1.836	70.452	77.704
	KBK_kognitif	54.169	1.836	50.543	57.795

Lampiran 30

Uji Lanjut Keterampilan Berpikir Kritis dan Kerja Ilmiah

Post Hoc Tests

hasil_penilaian

Multiple Comparisons

Dependent Variable: nilai

	(I) hasil_ penilaian	(J) hasil_ penilaian	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	pretest	kerja_ilmiah	-41.7837 [*]	1.83557	.000	-46.1272	-37.4402
		KBK_kognitif	-22.0769 [*]	1.83557	.000	-26.4204	-17.7333
	kerja_ilmiah	pretest	41.7837 [*]	1.83557	.000	37.4402	46.1272
		KBK_kognitif	19.7069 [*]	1.83557	.000	15.3633	24.0504
	KBK_kognitif	pretest	22.0769 [*]	1.83557	.000	17.7333	26.4204
		kerja_ilmiah	-19.7069 [*]	1.83557	.000	-24.0504	-15.3633
Scheffe	pretest	kerja_ilmiah	-41.7837 [*]	1.83557	.000	-46.3202	-37.2472
		KBK_kognitif	-22.0769 [*]	1.83557	.000	-26.6134	-17.5404
	kerja_ilmiah	pretest	41.7837 [*]	1.83557	.000	37.2472	46.3202
		KBK_kognitif	19.7069 [*]	1.83557	.000	15.1704	24.2434
	KBK_kognitif	pretest	22.0769 [*]	1.83557	.000	17.5404	26.6134
		kerja_ilmiah	-19.7069 [*]	1.83557	.000	-24.2434	-15.1704

Based on observed means.

The error term is Mean Square(Error) = 90,972.

*. The mean difference is significant at the ,05 level.

Homogeneous Subsets

		nilai			
hasil_penilaian	N	Subset			
		1	2	3	
Tukey HSD ^{a,b}	pretest	54	34.8404		
	KBK_kognitif	54		56.9172	
	kerja_ilmiah	54			76.6241
	Sig.		1.000	1.000	1.000
Scheffe ^{a,b}	pretest	54	34.8404		
	KBK_kognitif	54		56.9172	
	kerja_ilmiah	54			76.6241
	Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 90,972.

a. Uses Harmonic Mean Sample Size = 54,000.

b. Alpha = ,05.