

Two Way MANOVA Report

Dependent variables: G1, G2, G3

Factor A: school

Factor B: studytime

Model: dependent variable set ~ Factor A * Factor B

Pillai results:

effect	multivariate_test	value	approx_f	num_df	den_df	p_value	decision_alpha_0_05
school	Pillai	1	23.0875253	3	639	3.364498e-14	Reject H0
studytime	Pillai	3	5.0724131	9	1923	8.472350e-07	Reject H0
school:studytime	Pillai	3	0.4037939	9	1923	9.336233e-01	Fail to reject H0
Residuals	Pillai	641	NA	NA	NA	NA	<NA>

Follow-up ANOVA results:

dependent_variable	effect	df_effect	df_error	ss_effect	ss_error	f_statistic	p_value
G1	school	1	641	418.184729	4211.467	63.6491780	6.863486e-15
G1	studytime	3	641	249.190091	4211.467	12.6425344	4.886710e-08
G1	school:studytime	3	641	4.797652	4211.467	0.2434065	8.660378e-01
G2	school	1	641	400.361208	4838.145	53.0433748	9.604998e-13
G2	studytime	3	641	256.501994	4838.145	11.3278802	3.010232e-07
G2	school:studytime	3	641	6.051975	4838.145	0.2672729	8.490024e-01
G3	school	1	641	546.628653	5865.444	59.7378378	4.202088e-14
G3	studytime	3	641	341.211787	5865.444	12.4296780	6.556833e-08
G3	school:studytime	3	641	9.981718	5865.444	0.3636145	7.793037e-01
partial_eta_squared	decision_alpha_0_05						
0.090327471	Reject H0						
0.055863988	Reject H0						
0.001137892	Fail to reject H0						
0.076426599	Reject H0						
0.050347355	Reject H0						
0.001249325	Fail to reject H0						
0.085249910	Reject H0						
0.054975139	Reject H0						
0.001698893	Fail to reject H0						