

# GLM ANOVA R Report

Outcome: G3

Fixed factors: studytime, school, sex

Model summary:

	Model	Outcome	Fixed_Factors	N	Model_SS	Error_SS	Total_SS	df_model	df_error
GLM ANOVA	main-effects	model	G3 studytime, school, sex	649	954.2693	5808.997	6763.267	5	643
MS_Model	MS_Error	Global_F	Global_P_Value	Critical_F_05	R_Squared				
190.8539	9.03421	21.12568	1.378418e-19	2.228039	0.1410959				

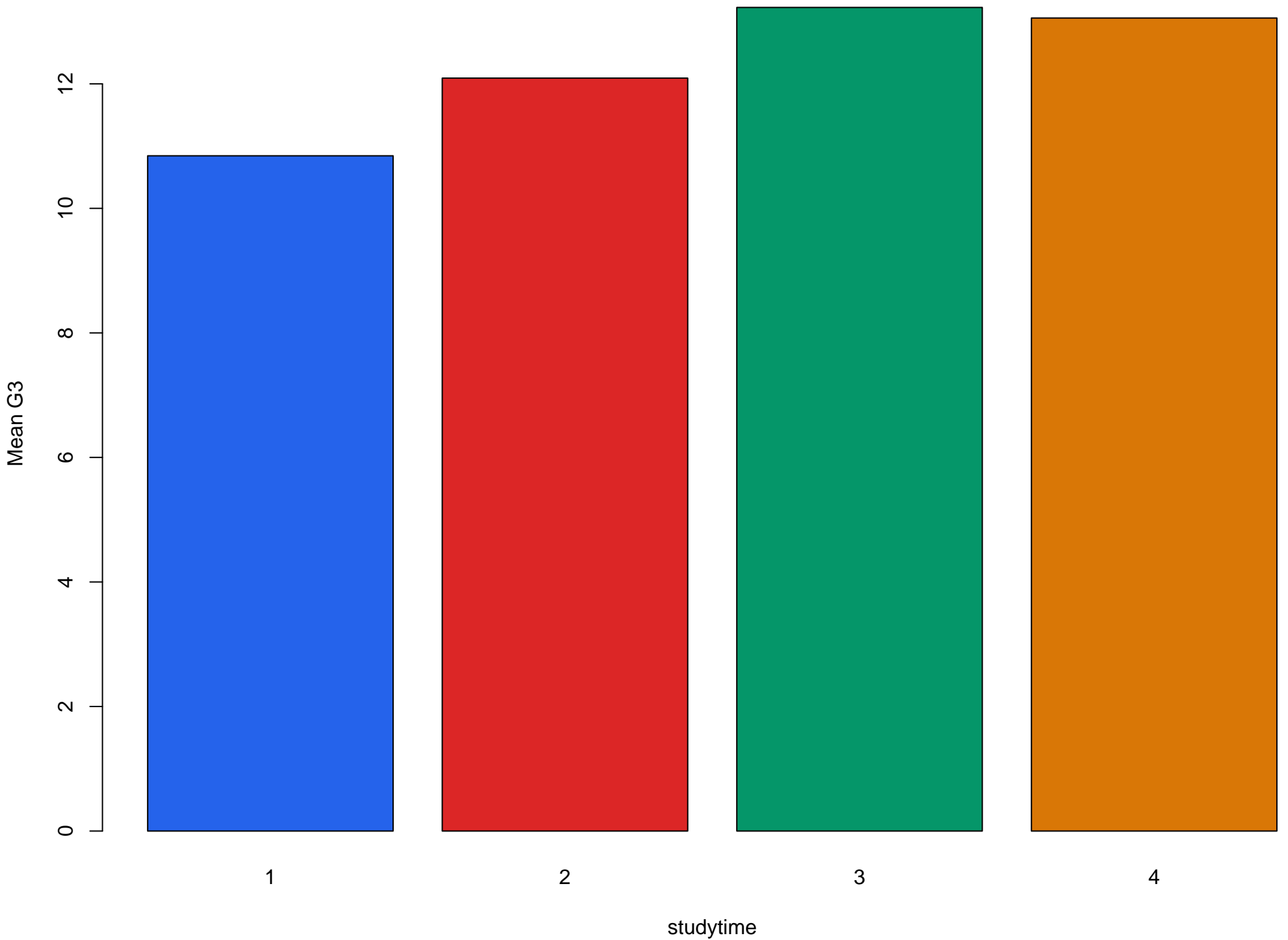
Factor tests:

Source	SS	df	MS	F	P_Value	Partial_Eta_Squared	Decision_alpha_0_05
studytime	248.8694	3	82.95645	9.182480	5.902828e-06	0.04108201	Reject H0
school	458.1238	1	458.12376	50.709885	2.875356e-12	0.07309956	Reject H0
sex	66.4289	1	66.42890	7.353039	6.873866e-03	0.01130623	Reject H0

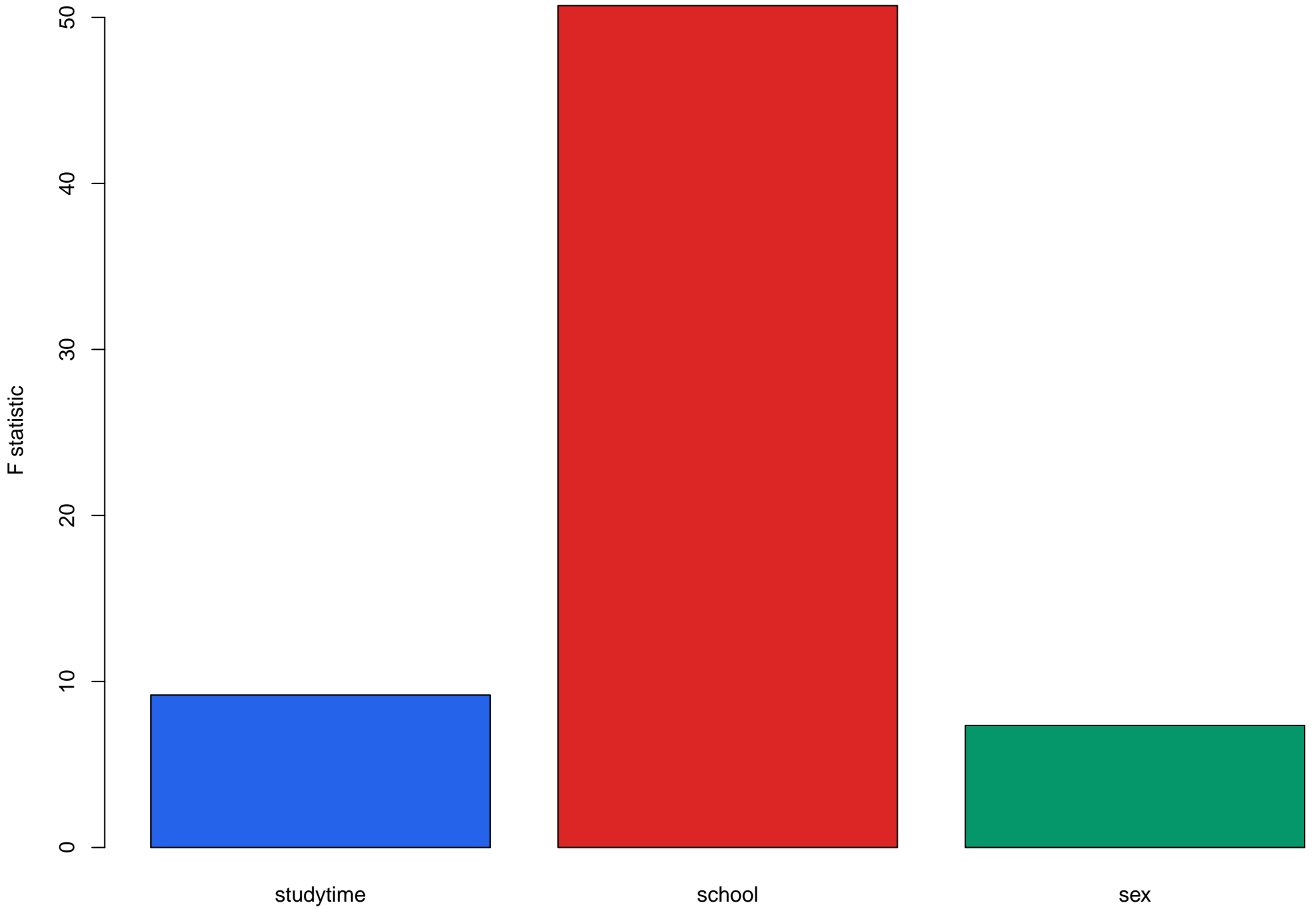
Group summary:

studytime	n	mean	median	sd	min	max	se	ci95_low	ci95_high
1	212	10.84434	11	3.218624	0	18	0.2210560	10.41107	11.27761
2	305	12.09180	12	3.243125	0	19	0.1857008	11.72783	12.45578
3	97	13.22680	13	2.502104	8	18	0.2540502	12.72887	13.72474
4	35	13.05714	13	3.038410	6	19	0.5135850	12.05052	14.06377

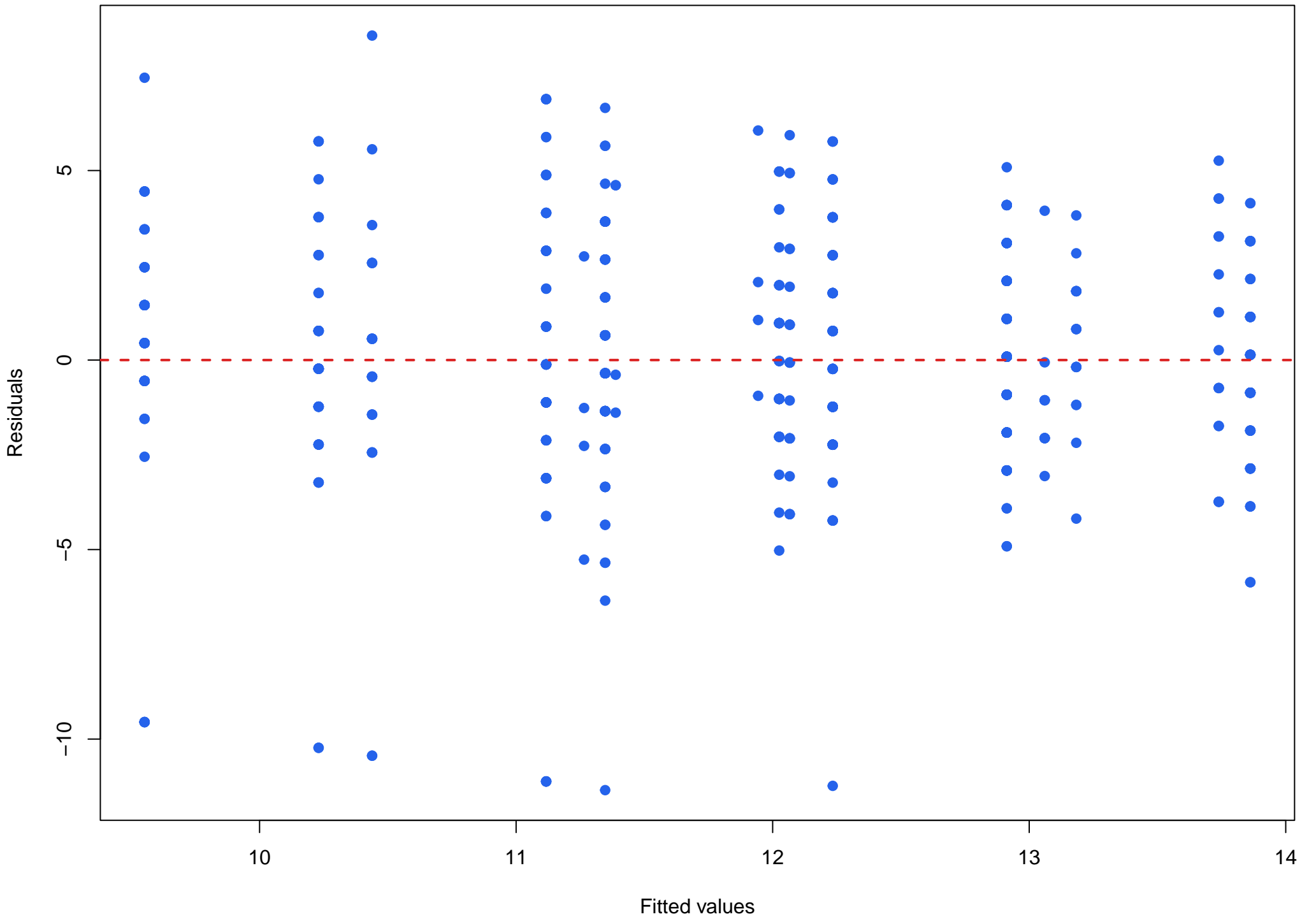
GLM ANOVA: Mean G3 by Studytime



# GLM ANOVA: F Statistics by Factor



GLM ANOVA: Residuals vs Fitted



GLM ANOVA: Q-Q Plot of Residuals

