

LEARNING CHECK

Let's check our understanding of one-way, repeated-measures ANOVAs using SPSS. Below I have inserted an SPSS printout from Bernard et al.'s (2014) research. Rather than include all 15 student organizations that they studied, I included data from just 4 organizations (my apologies if you feel cheated, but the point here is to learn how to read and interpret SPSS output, not to flood you with SPSS output). Here is that output:

General Linear Model

Within-Subjects Factors

Measure: MEASURE_1

Student_Group	Dependent Variable
1	Black_Student_Union
2	Kinesiology_Student_Association
3	Math_Club
4	Social_Work_Organization

Descriptive Statistics

	Mean	Std. Deviation	N
Black Student Union	11.6961	12.47009	204
Kinesiology Student Association	17.4118	19.65007	204
Math Club	13.3922	16.10994	204
Social Work Organization	19.1471	22.21875	204

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Student_Group	Sphericity Assumed	7310.863	3	2436.954	7.960	.000	.038
	Greenhouse-Geisser	7310.863	2.664	2744.143	7.960	.000	.038
	Huynh-Feldt	7310.863	2.703	2704.807	7.960	.000	.038
	Lower-bound	7310.863	1.000	7310.863	7.960	.005	.038
Error(Student_Group)	Sphericity Assumed	186437.637	609	306.137			
	Greenhouse-Geisser	186437.637	540.826	344.727			
	Huynh-Feldt	186437.637	548.692	339.786			
	Lower-bound	186437.637	203.000	918.412			

(Continued)