

PSY 520 Short Paper 1 Guidelines and Rubric

Refer to the following excerpt from a hypothetical research article that compared memory test performance between two groups of participants: those who consumed a caffeinated beverage before the test and those who consumed a non-caffeinated beverage:

An independent samples t-test was conducted to examine the difference between experimental conditions on test performance. The results indicated a significant difference between participants who consumed the caffeinated beverage and participants who did not, with participants in the caffeinated group (M = 7.64, SD = 2.41) performing worse than participants in the non-caffeinated group (M = 9.81, SD = 3.16), t(97) = 2.14, p < .05.

Write a brief paper explaining what the author means when she says that the results were statistically significant. In other words, what does it mean to say that results are statistically significant? Be sure to explain what a p value is and how it relates to statistical significance.

As a reminder, *M* stands for mean, *SD* stands for standard deviation, the *t* indicates that this was a t-test, and the *p* represents the p value. You can refer to page 377 of your textbook, *Discovering Statistics Using IBM SPSS Statistics*, for help interpreting the statistical results listed in the excerpt, but that may not be necessary.

Guidelines for Submission: Submit a 1–2-page document with double spacing, 12-point font, and one-inch margins, with any sources referenced cited in APA format.

Critical Elements	Exemplary (100%)	Proficient (90%)	Needs Improvement (70%)	Not Evident (0%)	Value
Description of	Meets "Proficient" criteria, and	Clearly and accurately describes	Understanding is evident,	No explanation, or it is evident	40
Statistical Significance	explanation succinct and needs	the meaning of statistical	though some confusion or lack	that the writer does not	
	no clarification	significance	of clarity is also evident	understand statistical	
				significance	
Explanation of P	Meets "Proficient" criteria, and	Clearly and accurately describes	Understanding is evident,	No explanation, or it is evident	40
Value	explanation is succinct and	the meaning of p-value	though some confusion or lack	that writer does not understand	
	needs no clarification		of clarity is also evident	p-values	
Articulation of	Submission is free of errors	Submission has no major errors	Submission has major errors	Submission has critical errors	20
Response	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	
	spelling, syntax, and	spelling, syntax, or organization	spelling, syntax, or organization	spelling, syntax, or organization	
	organization and is presented		that negatively impact	that prevent understanding of	
	in a professional and easy-to-		readability and articulation of	ideas	
	read format		main ideas		
Earned Total					100%