

Answers

Article: Extracurricular Activities and Dropping Out

Topics: Inferential Test: One-way ANOVA; F test

Practice Items:

1. Was an appropriate analysis done to address the author's main question? Explain.

No. main question was to see if extracurricular participation could be used to PREDICT drop out. Proper analysis for this is correlation/regression.

2. What is the probability that random sampling error accounts for the mean difference between the two groups at the 8th grade level?

$P < .001$

3. To keep the experiment-wise alpha at .01, what alpha should each p value be compared to?

Alpha = .0025

4. Should the null hypothesis for differences be reject at the 9th grade level? Explain.

Yes. P value is $< \alpha = .0025$. So, there is a statistically significant difference in mean number of activities between dropouts and non dropouts.

5. The authors do not report the standard deviations. Would you be interested in knowing this information? Why?

Yes. Important to know the spread of scores as well as central tendency. In addition, it's needed to figure out an effect size.