

Answers

Article: Characteristics of New Parents

Topic: Inferential Test: Dependent t-test

Practice Items:

1. How many dependent t-tests were conducted by the authors?

7

2. Why do you think the authors used a dependent t-test in a situation where there are two groups?

Because spouses can be considered matched-pairs.

3. To keep the experimentwise alpha at .05, what alpha should each p value be compared to?

.007

4. Keeping the experimentwise alpha at .05, how many of the results from the dependent t-tests can be considered statistically significant? Explain the finding(s) in words.

One. Parenting meaning/satisfaction. The mean difference in husband and wife responses in the area of marital satisfaction was statistically significant. Assuming high score means more satisfied, women more satisfied than men.

5. For each of the tests you identified as statistically significant determine the effect size and explain what your findings mean.

Effect size = $(50.25 - 46.12) / 7.695 = .53$

The change in the mean score on the scale overall was of moderate practical significance. The two means were .53 of a standard deviation apart from each other.