

Stats lab

Week 7

Example of writing up t-tests

Participants in the treatment condition had significantly better scores on the math test ($M = 2.30$, $SD = .10$) than participants in the control condition ($M = 1.80$, $SD = .15$), $t(45) = 2.35$, $p < .05$.

Women did significantly better on the math test ($M = 90.60$, $SD = 10.20$) than men ($M = 75.60$, $SD = 15.60$), $t(105) = 2.20$, $p < .05$.

Participants did significantly worse on the first statistic test of the semester ($M = 70.60$, $SD = 2.30$) than the second test ($M = 85.75$, $SD = 5.45$), $t(45) = 3.40$, $p < .001$.

Your write up

- ▶ The point is to DESCRIBE the differences between two groups/tests
- ▶ Are the two groups/tests different?
- ▶ Which group/test is larger; which is smaller?
- ▶ Gives an idea of the means of the two groups/tests and whether these are different

Portrait of a good t-test inference

- ▶ Tells what the variables are
- ▶ Indicates the direction and size of the relationship
 - Includes reporting the t statistic, dfs, and p-values
- ▶ Interprets that information
 - In English, what is this difference? What does it mean?

How to tell...

- ▶ Ask yourself:
 - What would you want to know about these two groups or scores?
 - It's always better to include more information