Ambiguous Figures Lab Assignment

Complete the assignment and upload to D2L by due date.

1a. After reading the Ambiguous Figures Reading assignment, what do you think out hypotheses should be for Trial 1?

1b. What should the be for hypothesis for Trial 2?

2. Open the SPSS file “Ambiguous\_figures\_data\_Fall\_2020” in SPSS.

Make sure you are on *Data View* (bottom of screen).

Answer the following questions. You must copy and paste the appropriate SPSS output to receive credit. You can do this by selecting the table and copy it, clip or select and copy part of the screen, or take a picture and embed it into the document.

a. What is the mean (and standard deviation) of the following?

Mean for meaningful figures for Trial 1? \_\_\_\_\_\_\_\_\_

SD for meaningful figures for Trial 1? \_\_\_\_\_\_\_\_\_

Mean for abstract figures for Trial 1? \_\_\_\_\_\_\_\_\_

SD for abstract figures for Trial 1? \_\_\_\_\_\_\_\_\_

Mean for meaningful figures for Trial 2? \_\_\_\_\_\_\_\_\_

SD for meaningful figures for Trial 2? \_\_\_\_\_\_\_\_\_

Mean for abstract figures for Trial 2? \_\_\_\_\_\_\_\_\_

SD for abstract figures for Trial 2? \_\_\_\_\_\_\_\_\_\_

**Paste SPSS output below:**

b. Compute a paired samples t-test that assess if there is a significant effect of Figure Type (Meaningful, Abstract) for **Trial 1**.

\*it doesn’t matter which one is Variable 1 and which one is Variable 2. The t-value will be the same, but if you put the one with the larger values first, your t-value will be negative. But it has the same p-value and means the same thing! You will look at the means to see **how** the groups differ.

Paste the SPSS output for this analysis below.

Is the t-test significant?

Please write a conclusion in APA style (include means and sd):

c. Compute a paired samples t-test that assess if there is a significant effect of Figure Type (Meaningful, Abstract) for **Trial 2**.

Paste the SPSS output for this analysis below.

Is the t-test significant?

Please write a conclusion in APA style (include means and sd):

3a. Were your hypotheses supported? (Explain).

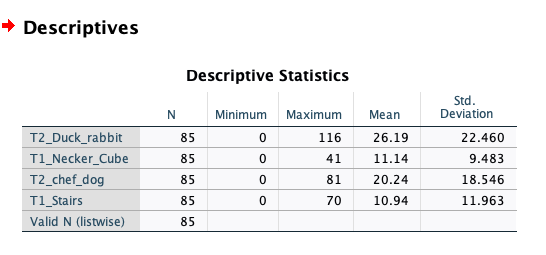
4. For the following questions you will need to look at the results from the Struber and Stadler (1999) article to make comparisons.

a. What conditions of the Struber & Stadler (1999) and did we replicate for our trials?

Trial 1 \_\_\_\_\_\_\_\_\_\_\_

Trial 2 \_\_\_\_\_\_\_\_\_\_\_\_

c. Were our results similar or different to the results Struber and Stadler found (please note they used 3 minutes whereas we used 1 minute)? Make a comparison (hint: look at the minimums, maximums and means of the variables we used that were the same as the images they used (pasted below).



d. Why do you think are results were similar or different (depending on your answer to the previous question) than the Struber and Stadler study?

