DO THE SECTION IN YELLOW – ADD TO PREVIOUS HOMEWORK

The current study examined self-objectification and hope in a sample of undergraduate men from a Midwestern university in the United States. Specifically, an online survey utilizing self-report measures examined the associations between body surveillance and body shame through the lenses of Objectification Theory and the Broaden and Build Theory of Positive Emotions.

Cole, B. P., Davidson, M., & Gervais, S. J. (2013). Body surveillance and body shame in college men: Are men who self-objectify less hopeful?. *Sex Roles*, doi:10.1007/s11199-013-0282-3

SPSS file:

* Body surveillance: participants were pre-screened on their body checking and grouped into none/very little, moderate, and extreme checking levels.
* Body shame: participants were given a questionnaire on their levels of body shame, where high levels indicate high shame. Scale is an average score that ranges from 0 to 10 points.

1. Run the ANOVA test as a One-Way analysis in SPSS.
   1. Include means box.
   2. Include homogeneity test box.
      1. Did you meet the homogeneity assumption?
      2. Why or why not?
   3. Include the ANOVA one-way box.
2. Was the omnibus ANOVA test significant?
3. What is the critical F value for this experiment (cut off score)?
4. Create a set of orthogonal contrasts for this study.
   1. List the contrasts here (make a table).
5. Run those contrasts with a One-Way analysis and include the output.
   1. Which contrasts were significantly different?
6. Run the ANOVA test as a GLM analysis in SPSS.
   1. Include a means box.
   2. Include a homogeneity test box.
   3. Include the ANOVA box.
   4. Include a measure of effect size.
7. Run a Tukey post hoc test in GLM analysis. Include the multiple comparisons box.
   1. Which tests are significantly different?
8. Run a trend analysis in either version (One-Way or GLM). Include the trend analysis output.
   1. Is there a significant trend?
   2. Which type?

Fill in the following ANOVA table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source** | **SS** | **df** | **MS** | **F** |
| Model | 12498.6 |  | 2083.1 |  |
| Residual | 8332.4 |  |  |  |
| Total |  | 80 |  |  |

For practice on these tables: https://people.richland.edu/james/ictcm/2004/anovagen.php

Complete the following table using all pairwise comparisons as your correction point:

|  |  |
| --- | --- |
| Post Hoc Correction | Corrected value |
| Bonferroni | Alpha = |
| Sidak | Alpha = |
| Dunnett’s | Mean difference = |
| Tukey | Mean difference = |
| Fisher-Hayter | Mean difference = |
| Scheffe | Adjusted F cut off = |

--This section is not graded--

Hint: it helps if you start by labeling the following:

Number of comparisons =

n =

MSR =

Number of groups/levels (for q) =

Df residual (for q) =