

**SPSS project: Multiple Comparisons**

Name \_\_\_\_\_

Studies conducted in Australia indicate that there may be a difference between the pain thresholds of blondes and brunettes. Men and women of various ages were divided into four categories according to hair color: light blond, dark blond, light brunette, and dark brunette. The purpose of the experiment was to determine whether hair color is related to the amount of pain evoked by common types of mishaps and assorted types of trauma. Each person in the experiment was given a pain threshold score based on his or her performance in a pain sensitivity test (the higher the score, the higher the person's pain tolerance).

<b>Light Blonde</b>	<b>Dark Blonde</b>	<b>Light Brunette</b>	<b>Dark Brunette</b>
62	63	42	32
60	57	50	39
71	52	41	51
55	41	37	30
48	43		35

Compute the confidence interval estimates for estimate the difference in averages between Light Blonde and Dark Blonde using LSD, Bonferroni and Scheffé methods. Show your work on this paper.

LSD:

Bonferroni:

Scheffé: