Main Research Question: How do pick-up lines and a person’s scent influence relationship

initiation?

Dataset: “PickUpLines.sav”

All the answers (except the ones about mean scores) **need to be justified**, e.g. if you say that there is homogeneity of variance, provide evidence for your claim, if you transformed a variable, explain why.

RQ1: Is there any evidence to suggest that the cute-direct pick-up approach will lead to more relationship receptivity than the direct-direct approach?

1. What is your dependent variable?
2. What is(are) your independent variable(s)?
3. Is there independence of observations?
4. Are there any significant outliers?
5. How is your dependent variable distributed in each cell?
6. Do you need to perform any transformations?
7. Is there homogeneity or heterogeneity of variance?
8. What is the mean score of receptivity in the experimental condition?
9. What is the mean score of receptivity in the control condition?
10. What is your answer to RQ1? Report on the findings (no less than 150 words). Don’t forget to mention the assumptions.

RQ2: Is there any evidence to suggest that the presence of androstadienone spray will lead to more relationship receptivity than no spray?

1. What is your dependent variable?
2. What is(are) your independent variable(s)?
3. Is there independence of observations?
4. Are there any significant outliers?
5. How is your dependent variable distributed in each cell?
6. Do you need to perform any transformations?
7. Is there homogeneity or heterogeneity of variance?
8. What is the mean score of receptivity in the experimental condition?
9. What is the mean score of receptivity in the control condition?
10. What is your answer to RQ2? Report on the findings (no less than 150 words). Don’t forget to mention the assumptions.

RQ3: Is there any evidence to suggest that the impact of the androstadienone spray on attractiveness effect will be enhanced by the pick-up approach?

1. What is your dependent variable?
2. What is(are) your independent variable(s)?
3. Is there independence of observations?
4. Are there any significant outliers?
5. How is your dependent variable distributed in each cell?
6. Do you need to perform any transformations?
7. Is there homogeneity or heterogeneity of variance?

N.B. If group sample sizes are equal or approximately equal and large, there is normality and the ratio of the largest group variance to the smallest group variance is less than 3, the two-way ANOVA is somewhat robust to heterogeneity of variance in these circumstances (Jaccard, 1998).

Reminder: Standard deviation is square root of variance ().

1. Is there any interaction between the two factors?
2. What is your answer to RQ3? Report on the findings (no less than 200 words). Don’t forget to mention the assumptions. You can use η2 instead of ω2.
3. Answer the main research question by taking the above findings into account (no less than 200 words). Don’t forget to mention the assumptions.