

# Leadership Survey\_Exercise

## Instructions

Leadership survey analysis

Data results to be analyzed: DERLS (from the group Excel file)

To be completed individually or in small teams (max. three students). All students must submit their team assignment individually and indicate the names of their team members.

## Attempt History

	Attempt	Time	Score
<b>LATEST</b>	<a href="#">Attempt 1</a>	1,317 minutes	6 out of 6

Score for this quiz: **6** out of 6  
Submitted Dec 7, 2018 at 11:51pm  
This attempt took 1,317 minutes.

### Question 1

**Not yet graded / 0 pts**

What are the names of your team members?

Your Answer:

### Question 2

**Not yet graded / 1.5 pts**

Conduct an EFA on the 23 survey questions and determine how many factors should be retained and why. How would you name the factors?

Your Answer:

9 factors would be retained and the factors could be named interaction.

### Question 3

**Not yet graded / 0.5 pts**

For each factor that you retained, determine the *Cronbach's alpha* coefficient of *reliability*.

Your Answer:

The Cronbach's Alpha reliability statistics is 87% or .87 for the nine items.

### Question 4

**Not yet graded / 1.5 pts**

Using the variables "Age" and "Gender" as independent variables, and your first latent variable (i.e., your first retained factor) as dependent variable, create a research question that can be answered using linear regression. Conduct the linear regression and indicate whether you reject or fail to reject your hypothesis. And, finally, determine what your effect size is.

Your Answer:

**Question 5****Not yet graded / 1.5 pts**

Recode the continuous variable "Age" into a categorical variable using the following guidelines:

20-39 years = 1

40-59 years = 2

60 or more years = 3

Using the recoded variable "Age" and "Gender" as independent variables, and your latent variable(s) (i.e., your retained factor(s)) as dependent variable(s), create a research question that can be answered using (M)ANOVA. Conduct the (M)ANOVA and indicate whether you reject or fail to reject your hypothesis (or hypotheses). And, finally, determine what your effect size is.

Your Answer:

**Question 6****Not yet graded / 0.5 pts**

Compare and contrast the results of your linear regression and your (M)ANOVA. What is similar? What is different?

Your Answer:

**Question 7****Not yet graded / 0.5 pts**

Please, upload your output here.

[leadership survey.pdf](#)