**Unit 9 Assignment**

Please review each scenario and then answer the corresponding questions for each.

# Scenario 1

Dr. Geller has a new client that has a very rare disorder that not much is known about. She wants to conduct a study to learn more about the disorder.

* Of the study methods discussed in class, which method would be ideal for her to use? Why?
* Describe briefly how she could structure her study.
* What are strengths and limitations of this study method?
* What is observer bias?
  + How could this affect the study results?
  + How could a researcher work around this?

# Scenario 2

Dr. Hu wants to conduct a study to see if music therapy causes a reduction in compulsive behavior in patients with Obsessive Compulsive Disorder.

* Of the study methods discussed in class, which method would be ideal for her to use? Why?
* Describe briefly how she could structure her study.
* What are strengths and limitations of this study method?
* What is attrition as a source of study error?
  + How could this affect the study results?
  + How could a researcher work around this?

# Scenario 3

A teacher wants to collect data to see if scheduled movement breaks help her class to show less off-task behavior during lectures and tests.

* Of the study methods discussed in class, which method would be ideal for her to use? Why?
* Describe briefly how she could structure her study.
* What are strengths and limitations of this study method?
* What is subject reactivity?
  + How could this affect the study results?
  + How could a researcher work around this?

# Scenario 4

A researcher wants to see if smokers consume alcohol more frequently than non-smokers do.

* Of the study methods discussed in class, which method would be ideal for her to use? Why?
* Describe briefly how she could structure her study.
* What are strengths and limitations of this study method?
* What is instrumentation error?
  + How could this affect the study results?
  + How could a researcher work around this?

# Scenario 5

A researcher wants to gather data on whether diet or exercise are associated with life satisfaction.

* Of the study methods discussed in class, which method would be ideal for her to use? Why?
* Of the study methods discussed in class, which method would be ideal for her to use? Why?
* Describe briefly how she could structure her study.
* What are strengths and limitations of this study method?
* What is non-response bias?
  + How could this affect the study results?
  + How could a researcher work around this?