Study Guide for Exam 2

Focus on your class notes and on Power Points. What did we spend time on? What did I stress as important? Go back and re-read that information in the text. It is possible that I will ask a question that we did not discuss in class.

Chapter 7

Population

Sample

Population of Interest

Biased/unrepresentative sample

Unbiased/representative sample

Convenience sample

Self-selection

Random sample

Random sample vs. random assignment

What type of validity is priority in a frequency claim?

Are larger samples always more representative? Why or why not?

Chapter 3

Variable

Constant

Measuring versus manipulating a variable

Conceptual definitions

Operational definitions

Frequency claims

Examples of these

Association claims

4 types of associations

Making predictions based on associations

Causal claims

Construct validity

External validity

Statistical validity

Internal validity

3 rules for Causation

Prioritizing validities

Chapter 4

What are Ethics?

What are some experiments that had poor or questionable ethics?

What are the 3 general principles determined by the Belmont Report? Be able to define/describe these.

What 2 extra principles does the APA code of ethics add?

What is an IRB? Why is it necessary?

What is informed consent? When is it not necessary?

What is deception and why do it?

What is debriefing?

Know and be able to describe the 2 types of scientific fraud

What is an example of a case of fraud?

Reasons for and ways to avoid fraud

Well thought out and explained Reasons for and against research with animals

Chapter 10

Know the 2 examples of experiments at the beginning of the chapter

From a description of an experiment, be able to describe the IV and levels, and DV

Control variable

The Three Rules of Causation and how they can be applied to an experiment

Comparison groups, treatment groups, and control groups

Confounds

Systematic vs. unsystematic variability

Selection effects and how to avoid

Independent groups designs

Within groups designs

Posttest only design

Pretest-posttest design

Within groups designs

Repeated Measures designs

Concurrent Measures designs

Advantages and Disadvantages of Within groups designs

Order effects and different types

Counterbalancing and different types