

ACTIVITY 3

PART A – Thursday, June 28, 2018

Week 2, Thursday

Due: Monday, July 9

Instructions: A hard copy of the final version of Activity #3 is due on Monday, July 9 (Week 4). You will be given the activity in parts, but it is your responsibility to keep track of all questions on one master document for each respective activity.

- (1) What is the type of research design utilized in the study described in Dale Keiger's *The Number*?
- (2) Does this type of research design typically have higher internal or external validity? Why?
- (3) Given what the article discusses, why would the external validity be threatened in this study?

For the remaining questions, work with a partner. Develop a hypothesis around any of the questions asked in the survey.

- (4) Who is your partner?
 - (5) What is your hypothesis?
 - (6) Determine if this hypothesis is **directional** or **non-directional**?
 - (7) What **question** would serve as your **dependent variable**?
 - (8) What **question** would serve as your **independent variable**?
 - (9) What is a possible **causal mechanism** for this hypothesis? *Explain your logic.*
 - (10) State the **null hypothesis**.
- (11) For your independent variable:
- (a) What is the **level of measurement** for this variable?
 - (b) Report the value(s) for the most appropriate measure of **central tendency**.
 - (c) Report the value(s) for **variability**.
 - (d) Draw the most appropriate graph for this variable.
- (12) For your dependent variable:
- (a) What is the **level of measurement** for this variable?
 - (b) Report the value(s) for the most appropriate measure of **central tendency**.
 - (c) Report the value(s) for **variability**.
 - (d) Draw the most appropriate graph for this variable.