

## ACTIVITY 1

### PART C – Thursday, January 31

**Due:** Thursday; February 7

**Instructions:** A hard copy of Activity #1 is due on Thursday; February 7 (Week 3). You will be given the activity in parts; but it is your responsibility to be organized and turn in the activity in its different parts.

- 1) In Activity 1, Part B, Question 5, you developed your own research question with a partner. Using that same question you developed, provide a hypothesis that tentatively answers the question.
- 2) For each of the following hypotheses, identify if they are **directional** or **nondirectional**:
  - a. There is a relationship between race and income.
  - b. As GDP of a country increases, the mortality rate of a country decreases.
  - c. Party identification is related to opinions about healthcare.
  - d. There is a difference between Democrats and Republicans in how they raise money for an election.
  - e. As a person becomes more left, they are more likely to support socialism.
- 3) Using the research question: “How does education affect the poverty rate?”
  - a. Develop a directional hypothesis for this research question.
  - b. Develop a nondirectional hypothesis for this research question.
  - c. Develop a null hypothesis for this research question.
- 4) Connected to your hypothesis in 3a, I find evidence that proves that education is not related to the poverty rate. Given this, would I confirm or reject the null?
- 5) Using the hypothesis: “Literacy rates are related to gender equality,” develop a causal mechanism for this hypothesis.
- 6) Using the hypothesis: “There is a difference between people with a high school diploma and people with a Bachelor’s degree on their level of income.”
  - a. What is the independent variable for this hypothesis?
  - b. What is the dependent variable for this hypothesis?
  - c. Is this a directional or nondirectional hypothesis?
  - d. Develop a null hypothesis for this hypothesis.
- 7) Answer the question on the screen.