

Data Analysis In-Class Worksheet #05: Team Project TP01

Turn in one completed worksheet per week for grading.

Student Name _____ TA Checked _____

Which of the following do you need to include in the TP01 submission?

- Hypotheses
- Executive Summary
- Topic Questions

Predictive vs. Prescriptive Topic Question

Which of the following statements is true?

- Predictive topic questions must include IVs, whereas prescriptive topic questions do not.
- Predictive questions must include the verb predict, whereas prescriptive questions can include a verb from a list of potential choice words.
- Prescriptive questions must include the verb *prescribe*, whereas predictive questions can include a verb from a list of potential choice words.

Topic question vs. hypothesis

Which of the following statements is true?

- Topic questions must be factual statements, whereas hypotheses must end with question marks.
- Hypotheses must be statements, whereas topic questions must end with question marks.
- Topic questions must start with an Independent Variable, whereas hypotheses must start with the word *what*.
- One must specify specific Independent Variable(s) in a topic question.

The Tiger Team wants to know what influences real estate prices in the Williamsburg area. Help them outline these key elements of this topic:

State their topic question:

This is a descriptive prescriptive predictive topic question.

Propose one hypothesis based on this topic question:

Their Dependent Variable (DV) is _____.
It is numeric categorical.

Their Independent Variable (IV) is _____.

The DV should be present in _____.
 the topic question not the hypothesis
 the hypothesis not the topic question
 both the topic question and the hypothesis

The IV should be present in _____.
 the topic question not the hypothesis
 the hypothesis not the topic question
 both the topic question and the hypothesis

The Honeybee Team wants to know what predicts the stock price of Nvidia. Help them outline these key elements of this topic:

State their topic question:

This is a descriptive prescriptive predictive topic question.

Propose one hypothesis based on this topic question:

Their Dependent Variable (DV) is _____.
It is numeric categorical.

Their Independent Variable (IV) is _____.

It is numeric categorical.

Practice writing a predictive topic question:

Practice writing a hypothesis for the above topic question:

Practice writing a prescriptive topic question: