

Name: _____

Student ID: _____

ECON 0150 | MiniExam 1 | Version A

This MiniExam will take 20 minutes. For each dataset, identify its dimensions and select an appropriate visualization. Answer clearly and concisely. Data tables are provided on pages 3-4.

Academic Conduct Code

The following academic conduct code is designed to protect the integrity of your work. Print your name/initials beside the three academic honesty agreements. I pledge to my fellow students, the university, and the instructor, that:

- Complete this MiniExam solely using my own work.
- Not use any digital resources unless explicitly allowed.
- Not communicate directly or indirectly with others during the MiniExam.

Q1. Student majors at a university (see Table 1)

a) Diagram the data:

- Index Variable(s) Name: _____
- Meaningful Variable Type: _____
- Data Structure: _____

b) Draw the most effective visualization for the question: →

"Which major has the most students?"

Q2. Weekly gas prices in Pennsylvania (see Table 2)

a) Diagram the data:

- Index Variable(s) Name: _____
- Meaningful Variable Type: _____
- Data Structure: _____

b) Draw the most effective visualization for the question: →

"How have gas prices changed over the past many weeks?"

Q3. PRT bus rider commute times in minutes (see Table 3)

a) **Diagram the data:**

- Index Variable(s) Name: _____
- Meaningful Variable Type: _____
- Data Structure: _____

b) **Draw the most effective visualization for the question: →**

"What is the distribution of bus rider commute times?"

Q4. Annual tax revenue for four cities (see Table 4)

a) **Diagram the data:**

- Index Variable(s) Name: _____
- Data Structure: _____

b) **Draw the most effective visualization for the question: →**

"How did each city's tax revenue change from 2020 to 2024?"

Q5. Restaurant tips by server (see Table 5)

a) **Diagram the data:**

- Index Variable(s) Name: _____
- Meaningful Variable Type: _____
- Data Structure: _____

b) **Draw the most effective visualization for the question: →**

"Do tips vary by server?"

Q6. Monthly food bank visits by neighborhood (see Table 6)

a) **Diagram the data:**

- Index Variable(s) Name: _____
- Meaningful Variable Type: _____
- Data Structure: _____

b) **Draw the most effective visualization for the question: →**

"What are the trends in food bank visits by neighborhood?"