

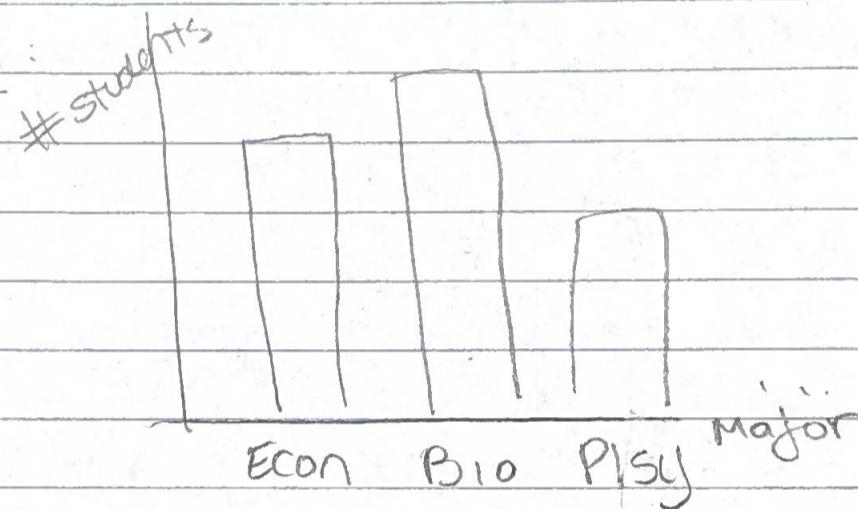
# Mini-Exam 1

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## 1. Student Majors at a University

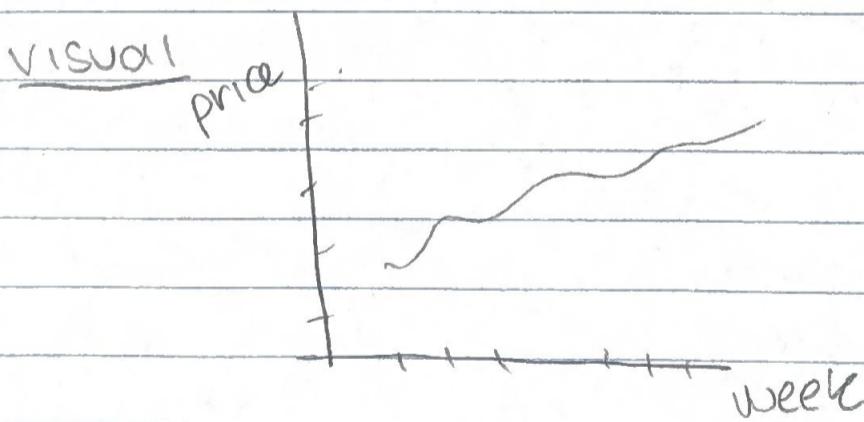
- Index Variable: entity ( $i$ ) = student ID
  - Variable Type: Nominal Categorical
  - Data Structure: cross-sectional

b) visual:



## 2. Gas Prices in PA

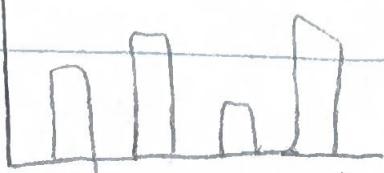
- Index: Week ( $t$ )
- Variable Type: Continuous Numerical
- Data Structure: Time series



## 3. Commute Times (mins)

- Index: Rider ID ( $i$ )
- Variable type: continuous numerical
- Data Structure: cross-sectional

visual:

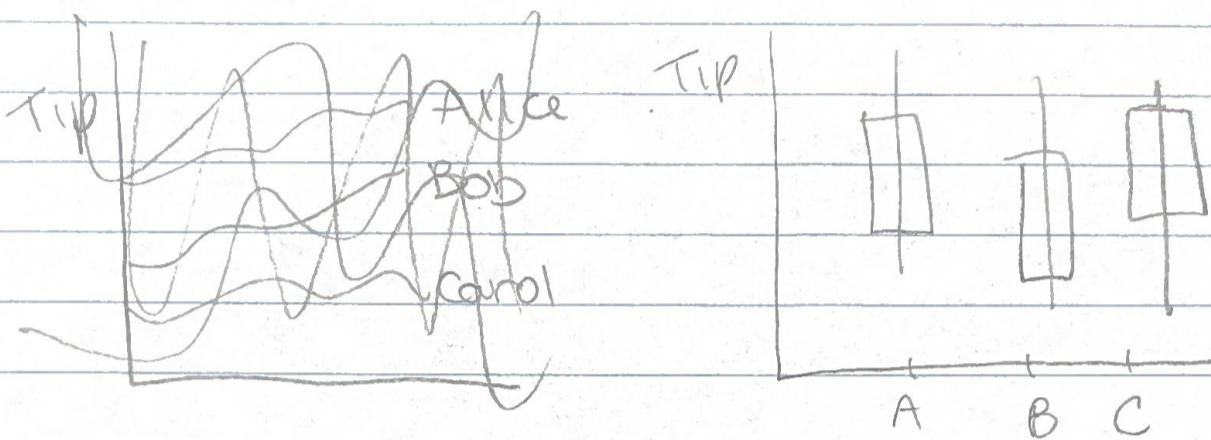


## 5. Tips

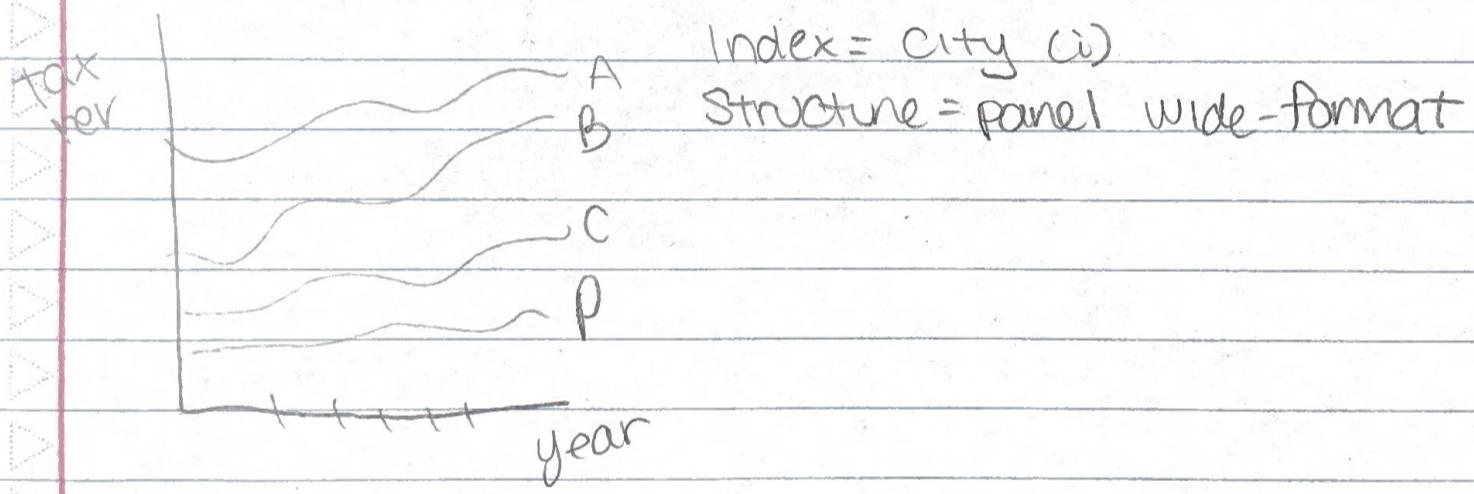
- Index = 1D : server
- data structure = cross sectional

Variable = continuous numerical

visual:



## 4. Tax Rev.



## 6.

- Index = neighborhood ; month  
variable = discrete numerical  
structure = panel (long-format)

