

Homework I

(Due Wednesday, July 22)

Direction: Do all calculations in Stata. Use a word processor of your choice to write a report. Insert (copy-paste) computer text output and graphics to support what you are saying. Also include necessary Stata commands used to produce the results. Each time when you import a data set, please use commands `codebook`, `summarize` (with the detail option), `list` or `browse` to explore the data.

1. Chapter 1. Review questions and exercises 6 and 7 on page 17 (10th Ed.)
2. Chapter 2. Exercises 2.3.1 and 2.3.2 on pages 30 – 31 (10th Ed.)
(It would be convenient to use 0.5 and 5 as the widths of class intervals for the two problems, respectively. Please provide the reasons for this using Sturges' formula. You do not need to provide the relative frequency distributions and frequency polygons. Answer all other questions.)
3. Chapter 2. Exercises 2.3.9 on page 35 (10th Ed.)
(Apart from stem-and-leaf displays, a dot plot is also a very intuitive method for comparing two sets of data. The commands should be as follows
`dotplot charges, over(hosp)`
Please try this command, too, and report the results.)
4. Chapter 2. Exercises 2.5.2 and 2.5.3 on pages 53 (10th Ed.)
5. Chapter 2. Review questions and exercises: 12, 13 and 16