

Homework #1 – on Chapters 1 & 2

Due at the start of class (10.00am) on Thursday, 6th September

Directions: Please type up or write up very, very neatly your answers to the following exercises showing all work and calculations.

- A. Exercise 2.6 on p.39
- B. Exercise 2.8 on p.41
- C. For the data in Exercise 2.6 (p.39), find the mean and standard deviation; also,

find the intervals $[\bar{X} - s, \bar{X} + s]$, $[\bar{X} - 2s, \bar{X} + 2s]$, and $[\bar{X} - 3s, \bar{X} + 3s]$ for this dataset and give the actual percentages of the original data points in each of these three intervals. Be sure to find the mean and standard deviation by hand and show all your work. For this part, be sure to keep at least 5 decimal places in all your calculations.

- D. Exercise 2.48 on p.70-71 parts (c) and (d) only.

The following exercises are important but should not be turned in:

Exercises 1.10 (p.11), 1.13 (p.16), 1.15 (pp.16-7), 1.16 (p.17), and 2.56 (p.73).