

# MAT 3312 Homework 1/ Computing exercise Spring 21

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Use SAS on demand to answer the following questions regarding descriptive statistics. You may place your results from SAS below. **Please copy and paste your SAS code to the end of your assignment.**

Import the Hospital dataset from the course data in SAS on demand. **Use the dataset to questions 1-8.**

**Question 1.** 2.1 from the book

**Question 2.** 2.2 from the book

**Question 3.** Graphically display the distribution of the variable age and add a title to your graphical display using SAS. Please include your initials in the title. Example “Distribution of Age FS”

**Question 4.** Describe the distribution of the variable age based on the graphical display you created in question 3.

**Question 5.** Find the five number summary of the variable first temp following admission?

**Question 6.** What is the range, mode, and IRQ of the variable white blood cell count (WBC)?

**Question 7.** Graphically display the distribution of the variable service and add a title to your graphical display using SAS. Please include your initials in the title.

**Question 8.** Describe the distribution of the variable service based on the graphical display you created in question 7.

**Use the data containing baseline information of subjects entering a health study below to answer questions 9 and 10.**

Sex	Age	Cholesterol level	Smoking status
F	50	178	Y
M	61	146	Y
M	72	208	N
M	55	147	Y
F	59	202	N
M	65	215	N
F	68	184	N
F	59	208	Y
F	63	206	N
M	52	169	N

**Question 9.** Convert the raw data into a SAS data file. Print the data below.

**Question 10.** What is the mean and standard deviation of the variable cholesterol? Is there no variability, small or a lot of variability for this variable?