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?