|  |
| --- |
| **CHAPTER 3, *Exploring Quantitative Data*****OBJECTIVES (Pages 44 to 77)*** Create/interpret a histogram.
* Create/interpret a stem-and-leaf display.
* Interpret a dotplot.
* Describe a histogram by giving its shape, center, and spread.
* Identify the shape of a histogram in one of several ways:

unimodal, bimodal, uniform, symmetric, left-skewed, right skewed.* Identify the center of a distribution by stating the median, mean, and mode.
* Find the first and third quartiles.
* Find the interquartile range.
* Report the Five-Number Summary: minimum, 1st quartile, median, 3rd quartile, maximum.
* Know that the 2nd quartile is usually known as the median.
* Identify the spread of a sample distribution by computing the range, interquartile range, sample variance, and sample standard deviation.
* Create/interpret a boxplot.
* Know how to find the outliers of a distribution by using both Tukey’s Rule and by using your TI-84 calculator.

**Technology:** TI-84 plus graphing calculator**Notes:**Sample variance and sample standard deviation are measures of spread of a distribution. What is the symbol for sample variance?What is the symbol for sample standard deviation?Calculating sample standard deviation ...***MONDAY (10.7.24*)** **Discuss the previously assigned problems:*** Page 84 (#41, 43, 45).
* Find the sample variance and sample standard deviation for the following data sets “by hand.” Round your final answers to the nearest tenth. Check by using the *1-Variable Statistics* option on your TI-84 graphing calculator.
1. **The weights in pounds for 6 puppies in the Lake City Humane Shelter are as follows: 5, 6, 10, 12, 15, 19.**
2. **The High Temperatures Recorded in Degrees Fahrenheit for August 1 – 6, 2022, in Valley City, are as follows: 78, 76, 88, 102, 93, 97.**

**Class Work/Homework:**  **Read and take notes on pages 69 – 77.*** Pages 81 – 83 (#30 – 35).

***WEDNESDAY (10.9.24*)****Discuss the previously assigned problems:** Pages 81 – 83 (#30 – 35).**Class Work/Homework:** Page 83 (#36 – 40).***FRIDAY (10.11.24*) \_\_ B-DAY, NO CLASS** |
|  |