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| **Chapter 4, *Telling the Stories of Quantitative Data***  **OBJECTIVES (Pages 90 – 107)**   * Be able to compare groups with histograms. * Be able to compare groups with stem-and-leaf displays. * Be able to compare groups with boxplots. * Understand the computation and significance of outliers. * Calculate measures of the center of a distribution: mean, median. * Calculate measures of position of a distribution: min, Q1, Q3, max. * Calculate measure of spread of a distribution: range, IQR, sample standard deviation, sample variance. * Know that **shifting** data occurs when you add or subtract the same number from each value in your sample. Observe that shifting affects measures of the center (mean, median) and position (min, Q1, Q3, max) by the adding or subtracting of that same amount but does **not** affect the measures of spread (range, IQR, sample standard deviation, and sample variance). * Know that **rescaling** data occurs when you multiply or divide all the data in your sample by a number. Observe that rescaling changes ALL the summary statistics by the scaled amount.   **Technology:** TI-84 plus graphing calculator  ***TUESDAY (11.12.24*)**  **Homework-check and discussion of the previously assigned work:**   * Page 113 (35) * *Shifting and Rescaling the Weights of 6 Pumpkins in Pounds.*   **Class Work/Homework:**   * Pages 113, 114 (32, 33, 36) * Page 115 (42, 43)   ***THURSDAY (11.14.24*)**  **Homework-check and discussion of the previously assigned work:**   * Pages 113, 114 (32, 33, 36) * Page 115 (42, 43)   **Class Work/Homework:**  **Study for your Chapter 4 Test on Thursday, 11.21.24. Topics will be shifting, rescaling, The John W. Tukey Rule of Outliers, and comparing parallel box plots.** You may use one page of notes written on one sheet of 8.5 by 11-inch paper, front and back. Your page of notes will be turned in with your test.  ***FRIDAY (11.15.24*) A-DAY, NO CLASS** |
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