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

Calculating Data from the Statistical Study (PART 3) - 40 points

1. Observation/question(s) asked: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(2 pts)

1. Stem & Leaf Plot (Has a title): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(3 pts)

1. Frequency table (Has a title): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Box & Whisker Plot (Has the 5 number summary and a title) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(15 pts)

1. Central tendencies: mean, trimmed mean of 10%, median, and mode

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Variation of data: range, variance, standard deviation, and OUTLIERS.

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Coefficient of Variation (sample) and Results of Chebyshev’s theorem for all 3 % values.

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(15 pts)

1. Explain the shape of data (use stem & leaf plot or box & whisker plot) and how this relates to the central tendencies/variation of data. If there were outliers, which central tendencies were effected? If no outliers were present, which central tendencies would have changed?

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(5 pts)