

Chapter 5: Describing Distributions Numerically



Key Vocabulary:

- center
- spread
- midrange
- median
- range
- quartile
- interquartile range
- percentile
- five-number summary
- boxplot
- mean
- standard deviation
- variance

Calculator Skills:

- boxplot
- modified boxplot
- 1-Var Stats

1. Explain the difference between *range* and *interquartile range*. Why is the *interquartile range* often a better measure of the spread of a distribution?
2. What are some advantages of *boxplots*?
3. What are some disadvantages of *boxplots*?
4. When is it more appropriate to use the *mean* as a measure of center rather than the *median*? Why?
5. When is it more appropriate to use the *median* as a measure of center rather than the *mean*? Why?
6. When do the *mean* and *median* have the same value?
7. Describe the relationship between *variance* and *standard deviation*.