

Things you should know for the midterm

- Everything from Test 1
 - Descriptive and inferential statistics
 - Kinds of data (qualitative, quantitative discrete, and quantitative continuous)
 - Frequency distributions, including relative, percent, cumulative, etc.
 - Stem-and-leaf plots
 - Measures of central tendency – mean, median, mode, midrange
 - Weighted mean
 - Measures of variation – range and standard deviation
 - You should understand standard deviation, but you need not compute it for the midterm
 - Measures of position – percentiles, 5-number summary, z-scores, box plots
- More on z-scores
 - Comparing data using z-scores
 - Identifying outliers
 - Finding data values given the z-score
- The normal distribution
- Analyzing two-variable data
 - Correlation and causation
 - Creating scatter plots and estimating correlation
 - Linear regression – estimating the linear regression line and making predictions
- Probability
 - Calculating probability using the sample space, including “add,” “or,” and conditional (“given”) events
 - Understanding mutually exclusive events and independent events