

STA13B – Fall 2007

Midterm 1 Key Words (Ch. 1-5)

The following key words should help you prepare for Midterm 1. They are listed by the chapter in which they are first introduced, although some relate to material in more than one chapter. This is not a comprehensive list. It is possible that something not listed here will be on the exam.

Chapter 1

Variability
Histogram
Population
Sample
Univariate, bivariate, multivariate
Categorical, numerical
Discrete, continuous
Frequency
Relative frequency

Chapter 2

Bias (selection, measurement, nonresponse)
Sampling (simple random, stratified, cluster, systematic, convenience)
Observational, experimental
Confounding
Extraneous factor
Randomization
Blocking
Direct control
Replication
Control group
Blinding (single, double)

Chapter 3

Pie chart, scatter plot
Smoothed histogram
Cumulative relative frequency
Density
Symmetric, positive skew, negative skew

Chapter 4

Five number summary (min, lower quartile, median, upper quartile, max)

Range, inter-quartile range (IQR)

Mode

Mean, trimmed mean

Variance, standard deviation

Outlier (mild, extreme)

Chebyshev's Rule, Empirical Rule

z-score

Percentile

Chapter 5

Correlation (Pearson's correlation coefficient)

Slope, intercept

Least squares line

Linear, non-linear

Predicted value

Residual (residual plot)

Coefficient of determination

Sum of squares (residual, total)