

Exam 1 Review

Note: This is not a complete list of topics – you should study your lecture notes and homework in addition to reviewing the items listed here.

1. variable classification
 - a. qualitative vs. quantitative
 - b. discrete vs. continuous
2. terms:
 - a. population
 - b. sample
 - c. factors
 - d. response variable
 - e. treatment
 - f. class
 - g. lower/upper cutpoints
 - h. observational study vs. designed experiment
 - i. completely randomized design
 - j. randomized block design
3. types of sampling
 - a. simple random (or just *random*)
 - b. systematic
 - c. stratified
 - d. cluster
4. obtaining a random sample
 - a. on TI-83: randInt(start, end, sample size)
 - b. make sure to check for repeats!
5. know how to construct:
 - a. frequency table
 - b. relative frequency table
 - c. bar graph
 - d. pie chart
 - e. histogram
 - f. dotplot
 - g. stem-and-leaf plot
6. distribution shapes
 - a. bell shaped
 - b. triangular
 - c. uniform
 - d. J shaped
 - e. reverse J shaped
 - f. right skewed
 - g. left skewed
 - h. bimodal
 - i. multimodal