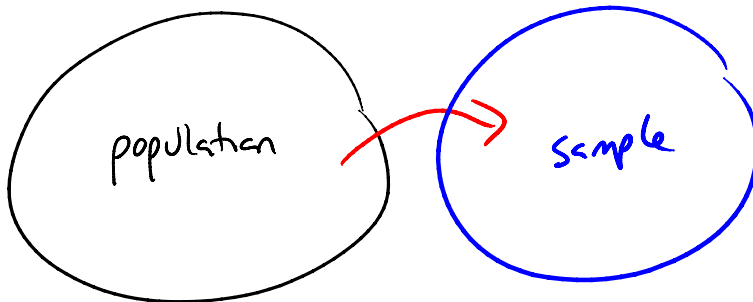


Section 1.1: Introduction to Statistics

Tuesday, April 30, 2013
12:00 PM

Statistics \equiv a branch of applied mathematics concerned with the collection and interpretation of data



population \equiv the entire set of measurements of interest

note: sometimes not possible or practical to collect data on the entire population

sample \equiv a subset of the set of measurements of interest

\Rightarrow must ensure as far as possible that your sample is representative

two types of statistics:

descriptive - procedures used to summarize and describe the important characteristics of a set of data

inferential - procedures used to make inferences (draw conclusions)

about the population characteristics
based on the info from a
sample