

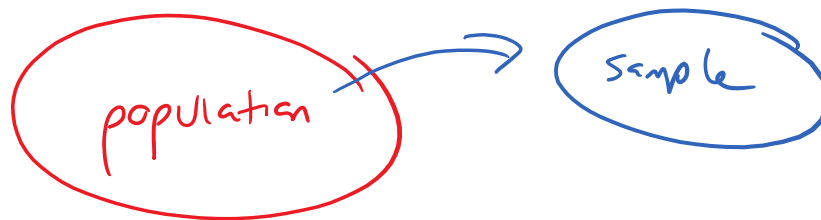
Stat 254:

Monday, January 7, 2019 11:22 AM

Section 1.1: Variables and Data

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

to talk about the idea of collecting data, we need to talk about



population \equiv the entire set of measurements of interest

\rightarrow sometimes not possible or practical to collect data on entire population

sample \equiv a subset of the measurements of interest

\rightarrow must ensure as far as possible that the sample is representative

two types of statistics:

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

inferential - procedures used to draw conclusions about a population based on a sample