

Day 1 Activity

Assume that the population consists of all students currently in your statistics class. We will be taking a sample of students and measuring some variables.

All questions related to _____ students registered for the STA2023 class:

For the following statistical variables: age, gender, height, income, number of siblings, and country of origin.

Part I

- a) Give an example of a parameter,
- b) Give two examples of statistics,
- c) Classify variables as quantitative or categorical,
- d) Classify variables as discrete or continuous,
- e) Classify each variable by the level of measurement (Nominal, Ordinal, Interval, Ratio).

Part II

In order to take a sample of ten students (First, assign a number to each student in the roster):

- f) Generate ten random numbers, (TI84, Casio fx9750).
- g) Describe how you may take a “systematic” sample?
- h) Describe how you may take a “cluster” sample?
- i) Describe how you may take a “stratified” sample?

Instructions:

TI 84: MATH, PRB, RandInt(from, to, how_many)

Casio fx-9750GII: RUN-MAT, OPTN, PROB, RAND,Int (from, to, how_many)

Example:

No	Name	Age	Gender	Height	Income	Num siblings	Country of origin
1	XYZ	19	F	68”	12,000.00	1	Argentina
2	Wzx	21	M	71”	12,000.00	2	USA
3						

Quantitative var/Categorical var:

Discrete var/Continuous var:

Level of measurement:

(Nominal, Ordinal, Interval, Ratio)