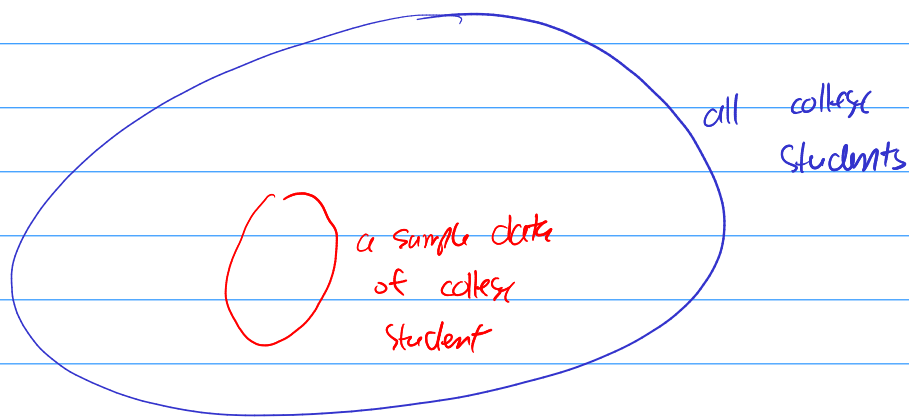


Population and Samples

Example :

Question : How number hours of studying impact GPA for a college student ?

The population data contain all college student



It is not practical to collect the population data.

①

we will collect a sample data from a group of college students.

②

we study the impact on the sample

and reach some conclusions for the sample

③

we generalize the conclusion for the population.

Example 1: In a survey, 834 employees in the United States were asked whether they thought their jobs were highly stressful. Of the 834 respondents, 517 said yes. Identify the population and sample.

Population : All employees in the US

Sample : 834 employees.

You Try: In a survey of 1501 ninth to twelfth graders in the United States, 1215 said “leaders today are more concerned with their own agenda than with achieving the overall goals of the organization they serve.” Identify the population and the sample.

Pop : All high schoolers in the US

Sample : 1501 high schooler in the sample.