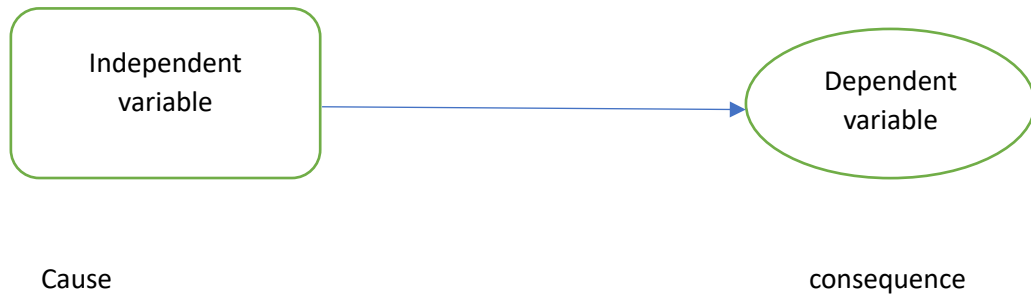


Chapter 9 bivariate statistics

1) What is bivariate statistics?

It includes at two aspects 1) the significance of the relationship (chi-square, two-sample t, F ratio, and student t) and 2) the strength of bivariate associations (lambda and gamma).

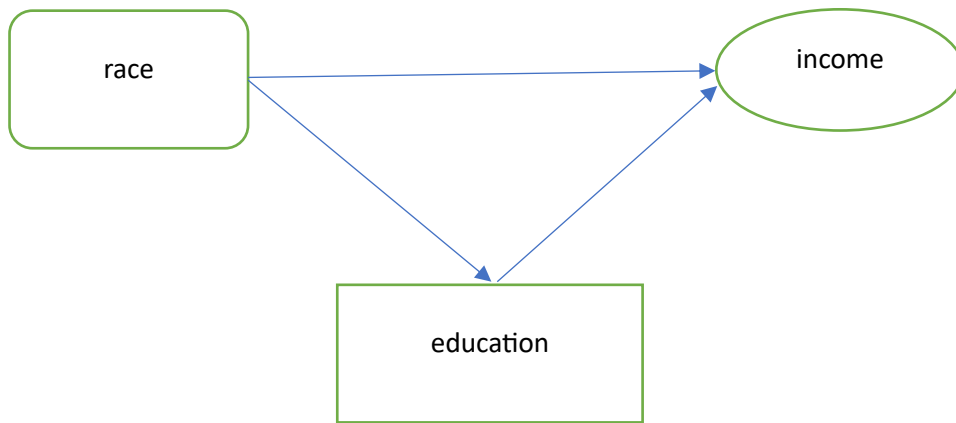
2) Bivariate examples (two variables)



- A) LSAT -> Law School admission
- B) Education -> income
- C) Gender/race -> income
- D) Study hours -> grades
- E) Attendance -> grades
- F) Exercise -> weight controls

3) Causality establishment: when all three conditions are satisfied, the causality is established.

- A) Independent variable must predate the dependent variable
- B) The relationship must be non-spurious

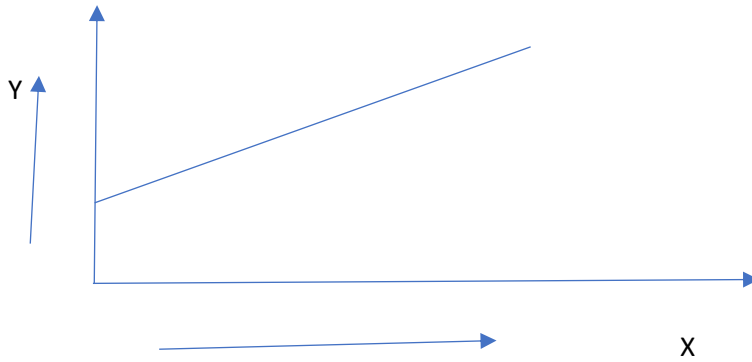


c) the relationship must be statistically significant ($P < .05$)

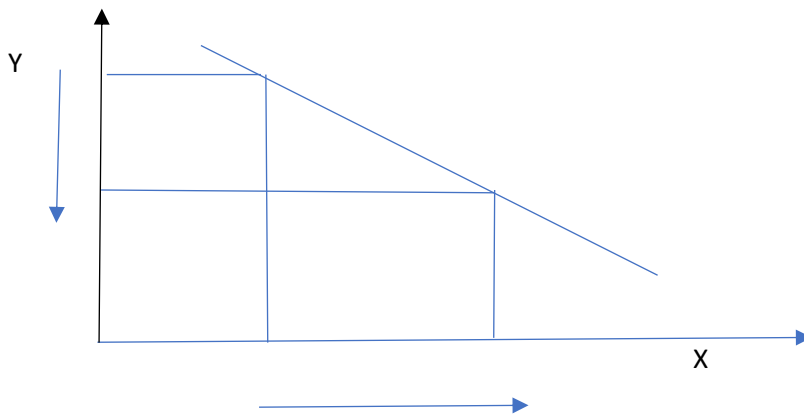


4) The direction of the bivariate relationship

A) Positive bivariate relationship



B) Negative bivariate relationship



C) Curvilinear relationship

