What Type of Variable?

- 1. Temperature (°F)
- 2. Habitat complexity (low, medium, high)
- 3. Home range size (m^2)
- 4. Brood size
- 5. Forest type (deciduous, mixed, coniferous)
- 6. Number of docks (on a lake shoreline)
- 7. Ecoregion (Northern Lakes & Forests, North Central Hardwood Forests, Driftless Area, Southeastern Wisconsin Till Plains, Central Corn Belt Plains)
- 8. Survived (yes, no)
- 9. Age (years)
- 10. Race

What is the Response Variable?

- 1. Can length be used to predict weight?
- 2. How is weight affected by typical daily ration?
- 3. Does metabolic rate differ by sex of rabbit?
- 4. Is gas mileages significantly affected by weight of the car?
- 5. Is there a relationship between how much money a person makes and their satisfaction with deer harvest regulations?
- 6. How is the uptake of heavy metals affected by the sex and age (young, middle, old) of the individual?
- 7. Is there a relationship between how much money a person makes and how much they weigh?

Which Test? Why?

- 1. Does bird species diversity (number of species) decline as you move away from the equator (increase latitude)?
- 2. Does the mean length of the anterior adductor muscle scar on a mussel species differ among five locations?
- 3. Does whether or not an otter captures a bluegill depend on the total length of the bluegill?
- 4. Is there a difference in fat reserves (thickness in mm) between wild and domestic seals, sex of the seal, or the interaction between the seal type and sex?
- 5. Does the relationship between the number of times the word gender was used in a journal volume and the year of the volume differ among three different journals?
- 6. Does the relationship between resting heart rate and body weight differ among groups of subjects that had or had not ingested caffeine?
- 7. Does the mean alcohol by volume differ among five different types of beer (pale ales, IPAs, lagers, stouts, and porters)?
- 8. Does mean alcohol by volume change depending on the weight of malt extract used in the brewing process?

Which Test? Why?











