Sle Solutions

A. One Way ANOVA

C. Chi-square test of Independence

STAT 217: Due Wednesday, November 19 beginning of class

Name ____.

Matching (1 pt each)

B. Two Way ANOVA

D. Chi-square test of Homogeneity

Directions: Select the single most appropriate test for the situation described

	E. Simple Linear Regression (SLR) F. Multiple Linear Regression (MLR)
1.	Two curriculum ("A" and "B") for the same course are taught, each by three different instructors ("1", "2", "3"). Students' final exam scores are recorded (out of 100%). We would like to compare the effectiveness of the two curriculum as well as the three
2.	Researchers in Canada measured the length of the season (in days) as well as the average winter precipitation (in inches) over the last 50 years for one outdoor hockey rink location. They would like to investigate the relationship between length of season and winter
3.	Every year since 1910, park managers in Yellowstone National Park count the size of the bison herd, number of calves, and number of wolf packs. The researchers would like to predict the size of the bison herd the following year.
4	D Two random samples of homeowners in Montana were performed (rural and city

purchased was: bought used, bought new, or whether they had never bought a bike.

5. In a 1988 case, defense attorneys researched the relationship between the race of the murder victim and whether the defendant was sentenced to the death penalty.

dwellers). For each sample the homeowners were asked whether the most recent bike they

- 6. C Researchers in Canada investigated the relationship between the age class of a child (0-1, 2-5, 6-10, 11-16, >17) and the sex of parent/child in a parent-offspring homicide (Male/Male, Male/Female, Female/Male, Female/Female).
- 7. Researchers investigated whether age (in years) and/or education level (HS, HS+Some College, College) was related to level of depression (score 1-10).