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EDG500: Educational Research and Statistics

SPSS Week 11

Video 31 ANOVA

1. What is the theory called the Wisdom of the Crowd?

The Wisdom of the Crowd is the theory that the average of the guesses will be more accurate than most of the individual guesses.

2. What was different about the clipboards that students were holding?

The clipboards the students were holding were each weighted differently from ounces to 2-3 pounds with the idea that physical experience can effect our our thinking in ways we are unaware and those holding heavier clipboards would choose higher answers.

3. State the null hypothesis for the one-way ANOVA.

The null hypothesis would state that there would not be a significant difference in the means of the student's guesses based on the influence of the weighted clipboards.

4. What is the name of the test statistic that results from ANOVA?

The test statistic that results from the ANOVA is the one way analysis of variance-the F statistic.

5. Was the professor able to conclude from the F-statistic that the population means differed depending on the weight of the clipboard? Explain.

Upon conclusion, the professor discovered the probability factor was .45 and therefore the probability of this happening by chance was approximately 45% and therefore he was not able to reject the null hypothesis.

6. Did the crowd prove to be wiser than the individual students?

Yes, the crowd did prove to be "*wiser*" than the individual students, but not in essence "*wise*." While the crowd answers were closer to the correct dollar amount of coins, the answers were still somewhat far off.