

## Video 31 ANOVA

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

The wisdom of the guesses means that the average of the guesses will probably be more accurate than most of the individual guesses.

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

Each clipboard had progressively more paper hidden inside. The first has a few sheets of paper weighing 1.1 lbs., the second half full of paper weighing just over 2lbs, and the third mostly full weighing just over 3lbs.

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

The null hypothesis for the one-way ANOVA is that there is in fact no significant difference.

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

The name of the statistic that ANOVA creates is called F.

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

The professor was not able to conclude that the means differed because the p value turned out to be .45, which means that there was a 45% chance of getting that large of a difference just by chance. This doesn't show that the hypothesis is true.

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

The crowd turned out to be wiser than the individual, but not by all that much.