META

Distributions, Variance, Inequalities, Confidence Intervals

General Comments

1. In case you didn't have time to cover distributions last week, make sure to do them, building an intuition for why the expectations make sense. Intuitions for variance aren't as important, but make sure they understand the formulas (no need to memorize, really).

2. The questions in Variance sections are really good, so cover them as much as you can so they can get practice. Red solo cup one and independent RV ones are especially good ones.

3. Draw diagrams and explain intuition for Markov/Chebyshev (balance scale example often brought up in lecture). Make sure you cover how to use Markov to prove Chebyshev question. Make sure they are aware of the restrictions on the random variables that Markov requires. Recommend to draw diagrams to help students to understand what Chebyshev bound is calculating.

4. Don't worry if you don't have time to get to confidence intervals, as we'll probably cover it next week too. Prove the formulas behind CIs and make sure that they can relate it to other inequalities they've seen.

Questions