

Presentation 1

Read the section on universal aids testing in Coincidences, Chaos, and All That Math Jazz (p. 58-60). The goal of the presentation is to explain the probabilities surrounding universal aids testing. Your presentation should include

- A presentation of the facts surrounding aids testing. Including the the probabilities both of false positives and false negatives.
- A presentation of the odds of a false positive if universal aids testing is adopted (this should involve actually showing the class the work behind figuring out the probability).
- An explanation of why this counter intuitive fact is true. Knowing this, if someone came up to you on the street and told you they tested positive for aids what do you think the chance is that they actually have aids? (admittedly this is very unlikely as this would not be something most people would volunteer to a stranger).

Your presentation should expand on this topic in other ways as well (as long as they also related to math). Some such options include:

- What are the chances of a false negative occurring? (i.e. someone who has aids but is told he doesn't)? Why is this number so different from the chance of a false positive?
- Under what conditions would universal aids testing make sense (i.e. how many people would need to have aids? How accurate would the testing need to be?). Explain how you came to these numbers.

- Can you think of any other situations when reasoning like the above might apply

If you have any questions regarding the presentation feel free to e-mail your TA or Dr. Ackerman.