

Critical Reasoning/Statistics WS 6-2 May 6, 2011

- I. (Individually) follow the powerpoint review/mini-lecture about the answers for today's assignment. Put a check ✓ against largely correct answers, an X against largely wrong answers and a question mark ? if you aren't sure

II Review Lecture/Discussion on Sampling

In Small group criticize any faulty reasoning exhibited in the following passages

1. In 1936 the *Literary Digest*, a popular magazine among the well-to-do and well educated, conducted a poll. The people surveyed were selected from among those included on their subscription records, in telephone books, and on automobile registration lists. They got responses from almost 2 million people and concluded that Franklin Roosevelt would not be elected.
2. Bruce examined records of several countries and determined that in Uganda, Rwanda, and Nigeria, being female was not associated with greater life expectancy. Males and females had about the same life expectancy. He concluded that, in general, being female is not associated with greater life expectancy than being male.
3. A random sample of cities and towns in the United States indicated an increase in the number of bank robberies. This trend was noted in a lead story in local TV news broadcasts with the announcement, "The number of bank robbers in the United States has increased."

4.


Age of Autism: A Pretty Big Secret posted by "Luddite"

CHICAGO, Dec. 7 (UPI) -- It's a far piece from the horse-and-buggies of Lancaster County, Pa., to the cars and freeways of Cook County, Ill. But thousands of children cared for by Homefirst Health Services in metropolitan Chicago have at least two things in common with thousands of Amish children in rural Lancaster: They have never been vaccinated. And they don't have autism.

"We have a fairly large practice. We have about 30,000 or 35,000 children that we've taken care of over the years, and I don't think we have a single case of autism in children delivered by us who never received vaccines," said Dr. Mayer Eisenstein, Homefirst's medical director who founded the practice in 1973. Homefirst doctors have delivered more than 15,000 babies at home, and thousands of them have never been vaccinated.

The few autistic children Homefirst sees were vaccinated before their families became patients, Eisenstein said. "I can think of two or three autistic children [for] who[m] we've delivered their mother's next baby, and we aren't really totally taking care of that child—they have special care needs. But they bring the younger children to us. I don't have a single case that I can think of that wasn't vaccinated."

The autism rate in Illinois public schools is 38 per 10,000, according to state Education Department data; the Centers for Disease Control and Prevention puts the national rate of autism spectrum disorders at 1 in 166—60 per 10,000.

 **Assignment for next Tuesday, May 10, Read:** Ch 9 to p. 260 **Submit:** Exercise 8.2

A2, A4, A6, A8, A10, Exercise 8.3 #2, #4, Exercise 8.4 #2 **Extra Credit** Exercise 8.4 #4