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Instructions: Answer each question completely. Show all work for any computational questions.

1. In taking a measurement, how does bias differ from validity?

from the true value. Validity does not achially measure what is claimed to be measured.

2. Why are rates considered to be a more valid measurement than a count?

they can be exhapolated to the population whereas a count cannot be.

3. What does it mean for a measurement to be reliable?

a measurement is precise and valid.

4. Why should we consider whether our numbers are plausible before doing any statistics?

we may catch errors (implaisable results may indicate problems of bias, reliability and/or validity)

5. Give an example of a way to spot fake data.

values are cited which can't be obtained from Sample size or patterns in It selection don't match real world numbers (which stapt w/more one's than random #'s)

6. Two polls are published from two different pollsters. One is conducted by a state political party, and the other is conducted by an independent local polling firm. The numbers presented by the two polls differ by more than 10% for a question on a particular topic. Whose poll is more likely to valid and why?

Their reputations is based on Their accuracy of predictions Their reputations is based on Their accuracy of predictions So the incentive is for that. a palitical party's incentives may lead them to ask leading greation that make their party look better.