

Your Name: _____

Math 140: Statistics, April 17, 2008
Quiz 15, Chapter 21: Accuracy of Percentages

1. (4 pts.) Probabilities are used when reasoning from the _____ to the _____; confidence levels are used when reasoning from the _____ to the _____.

Options: *box, draws*

2. In a hypothetical university with an enrollment of 50,000 students, a simple random sample of 100 students found that 20 had repeated a course.

- a) (4 pts.) Estimate the percentage of students in the university that have repeated a course as a give-or-take number.

- b) (4 pts.) Give a 68%- and a 95%-confidence interval for the percentage of students repeating a course.

- c) (4 pts.) If 80 students out of a sample of 400 students had repeated a course, how would the 95% confidence interval change? Give a numerical answer.

Pledged: _____