

Your Name: _____

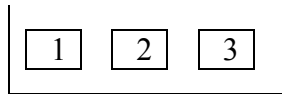
Math 140: Statistics, April 22, 2008
Quiz 16, Chapter 23: Accuracy of Averages

1. (8 pts.) In a hypothetical survey of families in a small city, a simple random sample of 900 families found that the average income of the families in the sample was \$52,000 per year with an SD of \$18,000.

a) Estimate the average income in the city as a give-or-take number.

b) 99.7%-confidence interval for the average income in the city.

2. (8 pts.) Twenty-five random draws will be made with replacement from the box



a) Give the average as a give-or-take number.

b) Estimate the chance that the average will be more than 2.2.

Pledged: _____