Name: Solution 5

## Math 130 Quiz 1

1. (1, 1, 1, 1, 2, 3, 1 points) In order to determine the percentage of people in Kentucky that own a horse, 180 Kentucky residents were randomly selected and polled. Of those polled, 133 of them own a horse.

a) What is the population?

All Kentucky residents

b) What is the sample?

The 180 polled Kentucky residents

c) What is the population data?

yes : own a horso The collection of yess and nos nu = don't own o From all trentucky residents

d) What is the sample data?

The collection of yess and nos yes = own a horse no = dantown a From the 180 polled Kentucky residents

e) What is the population parameter? (give the symbol and describe it in words)

P = The percentage of all Kentucky residents that our a horse

f) What is the sample statistic? (give the symbol, describe it in words, and give its value)

 $\hat{p} = The percentage of$ the 180 polled Kentucky residents =  $\frac{133}{180} = 0.7389$ = 73.89 0/ that own a horse

g) Based on this data, what is your best estimate of the population parameter?

P \(\sim p = 73.89 \)