

Name: \_\_\_\_\_

Math 130 Day 1 In Class Worksheet

Date: \_\_\_\_\_

The Goal of Statistics

1. In order to determine the percentage of Americans who are afraid of mice, 1200 Americans were randomly selected and asked if they are afraid of mice. 437 of those polled said that they are afraid of mice.

a) What is the population?

b) What is the sample?

c) What is the population data?

d) What is the sample data?

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

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

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

2. In order to determine the average amount of money people spend on food at the movie theatre when they go to the Montebello AMC, 8 moviegoers at this AMC were polled. The answers they gave were: \$0, \$0, \$12, \$21, \$26, \$30, \$54, \$80.

a) What is the population?

b) What is the sample?

c) What is the population data?

d) What is the sample data?

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

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

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