Name:

Statistics

Date:

Practice Quiz 1-A

1. Skylar is studying how much freshmen in California read per week. She asks 32 freshmen in a SVHS English class how many hours they read per week. State the following: a) the sample

The people actually in her study are _____

b) the population

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2. Describe how her results might be affected by sampling bias. Refer to \bar{x} and μ in your answer.

Students at SVHS tend	d to be	compared to students in general. Therefore, her might be too high of
an estimate of	if it is intended to represent the average for all California freshmen.	

3. Fill in each blank with the correct symbol for a statistic or parameter.

a) 6-sided dice roll "6" ____ = $\frac{1}{6}$ of the time.

One sixth of all die rolls are a 6, and the rest are a 1, 2, 3, 4, or 5.

b) IQ scores have a standard deviation of _____ = 15.

The standard deviation of all IQ scores is 15.

c) _____ = 75% of Californians are fully vaccinated against COVID.

75% of all Californians are fully vaccinated, and 25% are partially vaccinated or not vaccinated.

d) Nine male black labs had an average weight of _____ = 68 pounds.

These nine dogs had a mean weight of 68 pounds.

e) On average, the people surveyed estimated that they exercise for 1.5 hour per week.

For just the people surveyed, the average amount of exercise per week was 1.5 hours.

f) _____ = 21% of people surveyed estimated they exercise for more than two hours per week on average.

21% of the people surveyed estimated they exercise for more than two hours per week on average, and 79% estimated they exercise for two hours or less per week on average.

4. Taylor weighs 15 Coke cans and finds an average weight of 343 g.

a) Is the sample mean x known?b) Is the population mean μ known?Does she know the average weight of the Coke cans she weighed?Does she know the average weight of all Coke cans?

, because she knows the

c) State or estimate \overline{x} .

d) State or estimate μ .

e) Is she using probability, or is she using statistics?

She is using_

the

mean.

mean and she is using it to