1. Nora 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 $\qquad$ -.
b) the population

The people she is studying in general is $\qquad$ .
2. Describe how her results might be affected by sampling bias. Refer to $\bar{x}$ and $\mu$ in your answer.

Students at SVHS tend to be $\qquad$ compared to students in general. Therefore, her $\qquad$ might be too high of an estimate of $\qquad$ 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 " $\qquad$ $=\frac{1}{6}$ 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 $\qquad$ $=15$.

The standard deviation of all IQ scores is 15.
c) $\qquad$ $=64 \%$ of Californians are fully vaccinated.

64\% of all Californians are fully vaccinated, and 36\% are partially vaccinated or not vaccinated.
d) Nine male black labs had an average weight of $\qquad$ $=68$ pounds.

These nine dogs had a mean weight of 68 pounds.
e) Last semester, the average grade on the Statistics final was $\qquad$ $=80 \%$.

The mean score of all students who took the Statistics final last semester was 80\%.
f) $\qquad$ $=21 \%$ 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. Hannah weighs 15 Coke cans and finds an average weight of 343 g .
a) Is the sample mean $\bar{x}$ known?

Does she know the average weight of the Coke cans she weighed?
c) State or estimate $\bar{x}$.
) Is she using probability, or is she using statistics?
She is using $\qquad$ becauseshe knows the $\qquad$ mean and she is using itto $\qquad$
the $\qquad$ mean.

