### 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

The	people	she i	s stud	lvina	in	general	is
me	peopie	JIIC I.	Juli	<i>ymy</i>		general	15

## 2. Describe how her results might be affected by sampling bias. Refer to $\bar{x}$ and $\mu$ 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  $\mu$ .

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

She is using\_

the

mean.

mean and she is using it to