

Answer each question to the best of your ability. Be sure to stay positive.

1. Fill out table.

4

Information	Population	Sample
Mean		\bar{x}
Standard Deviation	σ	
Variance		s^2
Proportion	p	

2. Specify the type of variable. Use a check or X.

5

Variable	Nominal	Ordinal	Interval	Ratio
GPA				
Gender				
City				
Shirt Size (Small, Medium, Large)				
Birth Year				

3. Which type of sampling design allows for each element in the population to have the same probability of being in sample?

2

4. Find the following statistics from this data set: 1, 2, 2, 4, 5, 6, 7, 5, 9, 10, 3

3

1. Mean _____
2. Median _____
3. Mode _____

5. In a histogram, what are the three characteristics that you can determine from looking at the plot?

3

- _____
- _____
- _____

6. Describe the shape of the distribution based on the following relationships between the \bar{x} (mean) and M (Median).

3

- $\bar{x} > M$ _____
- $\bar{x} < M$ _____
- $\bar{x} \approx M$ _____