

A.P. Statistics
Assignment 6-5

Remember to show your thinking through your work.

1. Describe the difference between a parameter and a statistic.

2. What is a sampling distribution?

3. Describe the relationship between bias and variability through an example. Given that the proportion of all Americans that believe President Bush is doing a good job is 42%. You then conduct a series of 10 polls to confirm or refute this claim of 42%. Describe your results if...

- a. There is high bias and high variability in your results.

- b. There is high bias and low variability in your results.

- c. There is low bias and high variability in your results.

- d. There is low bias and low variability in your results.