1. How can you decrease the margin of error in a sample survey?

2. A confidence statement will always describe the ______.

- 3. Statistic describes a ______. Parameter describes a ______.
- 4. In a survey of 50 high school seniors, 65% said they would go to a 4-year university. a. What is the margin of error for the survey?
 - b. Using a 95% confidence level, write a confidence statement for this data.

c. Do you think these results accurately describe the true percentage of high school seniors going to a 4-year university? Why or why not?

- In a survey of 1050 people, 30% said that on average they sleep more than 8 hours a night?
 a. How many people average more than 8 hours of sleep a night?
 - b. What is the margin of error for the survey?
 - c. Using a 95% confidence level, write a confidence statement for this data.

- 6. A survey of 2500 dog owners asked whether or not they took their dog on a walk every day. 600 replied that they do take their dog on a walk every day.
 - a. What percentage people took their dog for a walk every day?
 - b. What is the margin of error for the survey?
 - c. Using a 95% confidence level, write a confidence statement for this data.
- 7. A survey of 10,000 Georgia residents were asked if they were a Georgia Bulldog's fan. 7200 residents said "yes."
 - a. What percentage of Georgia residents are Bulldog fans?
 - b. What is the margin of error for the survey?
 - c. Using a 95% confidence level, write a confidence statement for this data.

d. Do you think these results accurately describe the true percentage of Georgia Bulldog fans? Why or why not?