

### Exercise 8.9.10

Insurance companies are interested in knowing the population percent of drivers who always buckle up before riding in a car.

- a. When designing a study to determine this population proportion, what is the minimum number you would need to survey to be 95% confident that the population proportion is estimated to within 0.03?
- b. If it was later determined that it was important to be more than 95% confident and a new survey was commissioned, how would that affect the minimum number you would need to survey? Why?