**Extra Credit Question**

**ECON 2300 Introductory Statistics**

**Spring 2021**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

In a survey of 3027 adults aged 57 through 85​ years, it was found that 88.3​% of them used at least one prescription medication. Complete parts​ (a) through​ (c) below.

**a.** How many of the 3027 subjects used at least one prescription​ medication?

​(Round to the nearest integer as​ needed.)

**b.** Construct a​ 90% confidence interval estimate of the percentage of adults aged 57 through 85 years who use at least one prescription medication.

​(Round to one decimal place as​ needed.)

**c.** What do the results tell us about the proportion of college students who use at least one prescription​ medication?

A. The results tell us that there is a​ 90% probability that the true proportion of college students who use at least one prescription medication is in the interval found in part​ (b).

B. The results tell us​ that, with​ 90% confidence, the probability that a college student uses at least one prescription medication is in the interval found in part​ (b).

C. The results tell us​ that, with​ 90% confidence, the true proportion of college students who use at least one prescription medication is in the interval found in part​ (b).

D. The results tell us nothing about the proportion of college students who use at least one prescription medication.