In-Class
Sections 8.3-8.4

Name_____

1) Use the given data to construct a confidence interval of the requested level.
$x = 114$, $n = 228$, confidence level 90%

2) In a survey of 302 registered voters, 167 of them wished to see Mayor Waffleskate lose her next election. Find a point estimate for the proportion of registered voters who wish to see Mayor Waffleskate defeated.

3) In a survey of 314 registered voters, 156 of them wished to see Mayor Waffleskate lose her next election. Construct a 95% confidence interval for the proportion of registered voter who want to see Mayor Waffleskate defeated.

4) In a survey of 447 registered voters, 157 of them wished to see Mayor Waffleskate lose her next election. The Waffleskate campaign claims that no more than 27% of registered voters wish to see her defeated. Does the 98% confidence interval for the proportion support this claim? (Hint: you should first construct the 98% confidence interval for the proportion of registered voters who whish to see Waffleskate defeated.)
(0.299, 0.404)

5) Following are the heights in inches of 12 two-year-old apple trees. Assume that the population is normally distributed.

37.5	35.3	39.2	38.7	43.0	41.9
36.7	38.0	40.9	38.3	37.8	41.8

Construct a 90% confidence interval for the population standard deviation σ.

6) Measurements were made of the milk fat content (in percent) in six brands of feta cheese (a variety o goat cheese), with the following results. Assume that the population is normally distributed.

27.4	11.6	16.5	16.1	29.7	11.7

Construct a 95% confidence interval for the population standard deviation σ.

1) (0.446, 0.554)
2) 0.5530
3) (0.441, 0.552)
4) No
5) (1.75, 3.62)
6) (4.90, 19.24)