	Name:
	Course & Section:
	Electronic copies of this homework are located in D2L.
Confidence Interval PreClass	
Part 1	
Watch	the Video: Confidence Intervals Part 1 (https://www.youtube.com/watch?v=KETRnmbztLU)
1.	When 829 adult Minnesotans were surveyed, 51% of them were opposed to the use of the photo-cop for issuing traffic tickets. Using these survey results, find the best point estimate of the proportion of all adult Minnesotans opposed to photo-cop use.

3. The sample proportion was 51%, which means the number in the sample of 829 who said they were opposed to

1. Calculate a 95% CI for the proportion of all adult Minnesotans who oppose the use of photo-cop for issuing

the use of the photo-cop was_____. Round to the nearest whole number.

Watch the Video: Confidence Intervals Part 2 (https://www.youtube.com/watch?v=89PBsO8bP7I)

a. 51%b. 40%c. 50%d. 0.51

a. 423b. 829

traffic tickets.

a. 0.539b. 0.544c. 0.555

a. 54.4%b. 55.55c. 53.95

a. (0.476, 0.544)b. (0.466, 0.555)c. (0.482, 0.539)

2. What is the upper bound of the interval?

3. Write as a percent rounded to 1 decimal.

Part 2

2. What symbol is used for the point estimate?

A) p B) \hat{p} C) \bar{x} D) μ

- 4. What is the Lower Bound of the Interval?a. 0.466
 - b. 0.476
 - c. 0.482
- 5. Write as a % rounded to 1 decimal.
 - a. 46.6%
 - b. 47.6%
 - c. 48.2%
- 6. What is the margin of error?
 - a. 0.034
 - b. 0.057
 - c. 0.068
 - d. 0.089
- 7. Write as a percent rounded to 1 decimal place.
 - a. 3.4%
 - b. 5.7%
 - c. 6.8%
 - d. 8.9%
- 8. Interpret the confidence interval in the context of the problem. (Be careful to use correct wording)
 - a. We are 95% confident that the proportion of all adult Minnesotans who oppose the use of phot-cop is between 47.6% and 54.4%.
 - b. We are 95% confident that the probability that any randomly selected adult Minnesotan Minnesotans who oppose the use of phot-cop is between 47.6% and 54.4%.
 - c. The probability that 47.6% and 54.4% of adult Minnesotans who oppose the use of phot-cop is 95%.
 - d. We are 95% confident that the average of all adult Minnesotans who oppose the use of phot-cop is between 47.6% and 54.4%.

Part 3

Watch the Video: Confidence Intervals Part 3 (https://www.youtube.com/watch?v=IKzI88yw0uE)