Population Confidence Interval Theory

Overall Theory to Know Moving Forward

- A numerical measure of a population is known as _____
  - o
- A numerical descriptive measure of a sample is known as _____
  - o
- The probability distribution of the statistics constructed from many samples of the same size is known as the _____

	Population Parameter	Sample Statistic
Mean		
Median		
Variance		
Standard Deviation		
Binomial Proportion		

Confidence Interval Theory to Know

- A number that is calculated from a sample to estimate the target parameter is known as the _____
- The interval of numbers calculated from a sample that contains the target parameter is known as the _____
- The probability that the estimation method will generate a _____ is known as the _____
  - o The most common values used are: _____
- The complement of the _____ is known as the _____
  - o To find this, we use:
  - o The most common values used are:
- The overall formula for finding Confidence Interval is…

- The way we solve for the confidence interval depends on the sample size.
    - Considered _____ if both conditions are met and _____ if 1 or both conditions are not met.

- Formulas to understand:
    - Critical Value or ____
    - Margin of Error
        - For large sample
        - For small samples
    - Point Estimate
        - For large samples
        - For small samples

- Interpretation Set-up: