Margin of Error (**ME**)

* Definitions
  + Critical Value (**CV**) = Z-value or T-value
    - The CV is the coefficient of , when calculating ME
    - Steps for determining a CV, for a given Confidence Interval (**CI**):
      * Compute alpha =
      * Find Critical Probability (**CP**) =
      * Use a table to look up the Z-value corresponding to the CP
  + Standard Error of the Statistic =
    - SD of the population divided by the square root of the sample size
  + Standard Error of the Statistic =
    - SD of the sample divided by the square root of the sample size
* Formulas – use 1 of the following formulas, depending on available information
  + ME =
  + ME =

Z vs. T

Confidence Interval (CI)

* When to Z? When to use T?
  + If you’re not sure use T; as n increases the difference b/t Z & T decrease, and eventually become 0
  + Z
  + T
* Formulas
  + CI