Chapter 9 – Learning Targets

* I understand the difference between a point estimate and an interval estimate.
* I can choose the most appropriate point estimate based on the shape and the spread of the distribution.
* I can calculate a confidence interval (PANIC) for a proportion and for a mean both by hand and by calculator.
* I can list the assumptions that must be met for a proportion and for a mean.
* I can correctly interpret a confidence interval and a confidence level.
* I know the z critical values for the most common confidence levels, 90%, 95%, and 99%.
* I can calculate the standard error of a statistic.
* I can calculate the margin of error (bound on error of estimation).
* I can calculate the appropriate sample size for a mean CI (estimating σ if necessary) or a proportion CI.
* I know when it is appropriate to use the z distribution for a mean (almost never).
* I can find a t critical value from the table.
* I can calculate degrees of freedom for a t-distribution.