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| Confidence Intervals |
| **Name** | **z – interval** | **t-interval****paired t-interval** | **1 prop-z interval** |
| **Formula** |  |  |  |
| **Problem Cues** | Given the population standard deviation() | Given the sample standard deviation(s) | “proportion”“\_\_out of\_\_”% |
| “mean”“average” |
| **Conditions** | **Random?** Given or not given |
| **Normality?** n “large” (n >30) CLT OR n small graph the data | **Normality?** |
| **Independence?** 10n < population size of \_\_\_\_\_ |
| **Interpret the Confidence Interval** | We are \_\_\_% confident that the **true mean** of ***context*** is between \_\_\_ and \_\_\_. | We are \_\_\_% confident that the **true proportion** of ***context*** is between \_\_\_ and \_\_\_. |
| **Interpret the Confidence Level** | If all samples of size n are taken and 95% confidence intervals are created using the same method, then 95% of all the intervals will contain the true \_\_\_\_\_\_\_\_\_\_ of ***context***. proportion mean “parameter”  |