First questions to ask yourself:

1. What are the observational units (people or things we took measurements on)?
2. What are the variables, and is each categorical or quantitative?
3. Are there one or two populations? (are we comparing proportions or means among two populations?)
4. If we are comparing means in two populations, are the data paired or unpaired?

| Categorical (one) | Assumptions to Check <br> Population proportion |
| :--- | :--- |
| Independence <br> $-\quad$ Randomization <br> $-\quad$ Sample size (less than 10 percent of population size) |  |
| Two possible outcomes for each trial. |  |
| Same probability of success for each trial |  |

