**Two Populations – TI Series**

 **Two-sample z-interval for** $p\_{1}-p\_{2} $ **(Example on p. 617 – 618)**

****

* Make sure to write down the interval and $\hat{p}\_{1}$ and $\hat{p}\_{2}$.
* Fill in information
* Type in Confidence Level as a decimal
* Calculate (Press ENTER)
* STAT 🡪 TESTS
* Select B: 2-PropZInt

 **Two-sample z-test for** $p\_{1}-p\_{2}$ **(Example on p. 622 – 623)**

****

* STAT 🡪 TESTS
* Select 6: 2-PropZTest

* Make sure to write down the *z*-statistic and *P*-value and $\hat{p}$
* Fill in information
* Select the Alternative Hypothesis
* Calculate (Press ENTER)

 **Two-sample t-interval for** $μ\_{1}-μ\_{2}$ **(when given statistics) (Example on p. 641 – 642)**

****

* Make sure to write down the d.f. and interval
* Press the ↓ key
* Type in confidence level as a decimal
* Select No for Pooled
* Calculate
* Select Stats and fill in information
* STAT 🡪 TESTS
* Select 0: 2-SampTInt

 **Two-sample t-test for** $μ\_{1}-μ\_{2}$ **(when given data) (Example on p. 645 – 647)**

****

* Make sure to write down the *z*-statistic, the *P*-value, and d.f.
* Select Data and fill in information
* Select Alternative Hypothesis
* Select No for Pooled
* Calculate (Press ENTER)
* STAT 🡪 TESTS
* Select 4: 2-SampTTest
* STAT 🡪 1: Edit
* Enter data in L1 & L2

**Two Populations – HP Prime**

****

* Select either Confidence Interval or Hypothesis test as your method.
* Select the Inference App

 **Two-sample *z*-interval for** $p\_{1}-p\_{2} $ **(ON THE PRIME, THEY LABEL *p* as π) (Ex. on p. 617 – 618)**

****

* Select N. Fill in info.
* Type in confidence interval as a decimal
* Push Calc in bottom right corner
* Select Type: Z-Int: $π\_{1}-π\_{2}$
* Make sure to write down the interval (Lower, Upper)
* Write down critical value

 **Two-sample z-test for** $p\_{1}-p\_{2}$ **(Example on p. 622 – 623)**

****

* Make sure to write down the *z*-statistic (Test Z) and *P*-value (P)
* Notice that it tells you the decision to make.
* Select N. Fill in info.
* You can select an *α*.
* Push Calc in bottom right corner
* Select Ha
* Select Type: Z-Test: $π\_{1}-π\_{2}$

**Two-sample t-interval for** $μ\_{1}-μ\_{2}$ **(when given statistics) (Example on p. 641 – 642)**

****

* Select N. Fill in info.
* Type in confidence interval as a decimal
* Do not select Pooled
* Push Calc in bottom right corner
* Select Type: T-Int: $μ\_{1}-μ\_{2}$
* Make sure to write down the interval (Lower, Upper)
* Write down critical value

**Note:** For confidence intervals and sig tests for $μ\_{1}-μ\_{2}$*,* there is an option to ***Import***. If the problem gives you data instead of statistics, select Import and enter data into the Statistics 1-Variable App

**Two-sample t-test for** $μ\_{1}-μ\_{2}$ **(when given data) (Example on p. 645 – 647)**

****

* Go back to the Inference App
* Select Hypothesis Test
* Select: T-Test: $μ\_{1}-μ\_{2}$
* Enter Data into D1 and D2
* Select Statistics 1 Var App

****

* Select the lists that each variable will come from (D1 & D2)
* Push OK
* Select Ha
* Then select N
* Select Import when you have data instead of statistics





* Make sure to write down the *t*-statistic (Test T) and *P*-value (P) and DF
* Notice that it tells you the decision to make.
* Select Calc