# STATISTIC TESTS
## (TI Calculators)

| TEST | COMMENTARY |
|------|-----------|
| 1: Z – Test | Compares a mean to a hypothesized mean (**σ known**) |
| 2: T – Test | Compares a mean to a hypothesized mean (**σ unknown**) |
| 3: 2 – Samp Z Test | Compares 2 means from 2 samples (**σ known**) |
| 4: 2 – Samp T Test | Compares 2 means from 2 samples (**σ unknown**) |
| 5: 1 – Prop Z Test | Compares a proportion (%) to a hypothesized proportion |
| 6: 2 – Prop Z Test | Compares 2 proportions (%) from 2 samples |
| 7: Z Interval | Calculates a CI for a population mean (**σ known**) |
| 8: T Interval | Calculates a CI for a population mean (**σ unknown**) |
| 9: 2 – Samp Z Int | Calculates a CI for the *difference* of 2 means (**σ known**)* |
| 0: 2 – Samp T Int | Calculates a CI for the *difference* of 2 means (**σ unknown**)* |
| A: 1 – Prop Z Int | Calculates a CI for a population proportion (%) |
| B: 2 – Prop Z Int | Calculates a CI for the *difference* of 2 proportions (%)* |
| C: $X^2$ – Test | Calculates a Chi-Square statistic from a given matrix |
| D: 2 – Samp F Test | Compares standard deviations from 2 samples |
| E: Lin Reg T Test | Compares the slope of a LSRL to 0 |
| F: ANOVA | Compares 3-6 means from 3-6 samples |

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| 4: 2 – Samp T Test | Compares 2 means from 2 samples (**σ unknown**) |
| 5: 1 – Prop Z Test | Compares a proportion (%) to a hypothesized proportion |
| 6: 2 – Prop Z Test | Compares 2 proportions (%) from 2 samples |
| 7: Z Interval | Calculates a CI for a population mean (**σ known**) |
| 8: T Interval | Calculates a CI for a population mean (**σ unknown**) |
| 9: 2 – Samp Z Int | Calculates a CI for the *difference* of 2 means (**σ known**)* |
| 0: 2 – Samp T Int | Calculates a CI for the *difference* of 2 means (**σ unknown**)* |
| A: 1 – Prop Z Int | Calculates a CI for a population proportion (%) |
| B: 2 – Prop Z Int | Calculates a CI for the *difference* of 2 proportions (%)* |
| C: $X^2$ – Test | Calculates a Chi-Square statistic from a given matrix |
| D: $X^2$-GOF-Test | Calculates a Chi-Square statistic for some hypothesized distribution |
| E: 2 – Samp F Test | Compares standard deviations from 2 samples |
| F: Lin Reg T Test | Compares the slope of a LSRL to 0 |
| G: Lin Reg T Int | Calculates a CI for the slope of a LSRL |
| H: ANOVA | Compares 3-6 means from 3-6 samples |

*Conclude with C% confidence that the difference is higher (or lower) between the 2 groups