**Confidence Intervals for AP Statistics**

**Proportions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Statistic** | **Parameter** | **Conditions** | **Formula** | **Calculator** |
| One-sample *z*-interval for a proportion |  |  |  |  |  |
| Two-sample *z*-interval for a difference in proportions |  |  |  |  |  |

**Means**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Statistic** | **Parameter** | **Conditions** | **Formula** | **Calculator** |
| One-sample *t*-interval for a mean  or  paired t-interval |  |  |  |  |  |
| Two-sample *t*-interval for a difference in means |  |  |  |  |  |

**Slope**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Statistic** | **Parameter** | **Conditions** | **Formula** | **Calculator** |
| *t*-interval for a slope |  |  |  |  |  |

**Significance Tests for AP Statistics**

**Proportions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Null Hypothesis** | **Conditions** | **Formula** | **Calculator** |
| One-sample *z*-test for a proportion |  |  |  |  |
| Two-sample *z*-test for a difference in proportions |  |  |  |  |

**Means**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Null Hypothesis** | **Conditions** | **Formula** | **Calculator** |
| One-sample *t*-test for a mean  or  paired *t*-test |  |  |  |  |
| Two-sample *t*-test for a difference in means |  |  |  |  |

**Slope**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Null Hypothesis** | **Conditions** | **Formula** | **Calculator** |
| *t*-test for a slope |  |  |  |  |

**Chi-Square**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Hypotheses** | **Conditions** | **Formula** | **Calculator** |
| test for goodness-of-fit |  |  |  |  |
| test for homogeneity |  |  |  |  |
| test for independence |  |  |  |  |