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Spss one sample t test results interpretation. In spss when you perform the one sample t-test ___. Spss one-sample t-test 1-tailed. In spss when you perform a one sample t-test the results are displayed in. Spss one sample t test interpretation. Spss one sample t test output interpretation. Spss does not offer a one-sample t-test. How to calculate one sample t test in spss.

A one sample t-test is used to test whether or not the mean of a population is equal to some value. This tutorial explains how to conduct a one sample t-test in SPSS. Example: One Sample t-test in SPSS A botanist wants to know if the mean height of a certain species of plant is equal to 15 inches. She collects a random sample of 12 plants and records each of their heights in inches: Use the following steps to perform a one sample t-test to determine if the true mean height of this species of plant is equal to 15 inches, based on the following null and alternative hypotheses: H0: μ = 15 (the true population mean is equal to 15 inches) H1: μ ≠ 15 (the true population mean is not equal to 15 inches) Use a significance level of α = 0.05. Step 1: Choose the One Sample t-test option. Click the Analyze tab, then Compare Means, then One-Sample T Test: Step 2: Fill in the necessary values to perform the one sample t-test. Once you click One-Sample T Test, the following window will appear: Drag the variable height into the box labelled Test Variable(s) and change the Test Value to 15. Then click OK. Step 3: Interpret the results. Once you click OK, the results of the one sample t-test will be displayed: The first table displays summary statistics for the variable height: N: The sample size Mean: The mean height of plants in the sample Std. Deviation: The standard deviation of the height of plants in the sample. Std. Error Mean: The standard error of the mean, calculated as s/√n The second table displays the results of the one sample t-test: t: The test statistic, calculated as (x̄ - μ) / (s/√n) = (14.3333-15) / (1.37/√12) = -1.685 df: The degrees of freedom, calculated as n-1 = 12-1 = 11 Sig. (2-tailed): The two-sided p-value that corresponds to a t value of -1.685 with df=11 Mean Difference: The difference between the sample mean and the hypothesized mean 95% C.I. of the Difference: The 95% confidence interval for the true difference between the sample mean and the hypothesized mean Since the p-value of the test (.120) is not less than 0.05, we fail to reject the null hypothesis. We do not have sufficient evidence to say that the true mean height of this species of plant is different than 15 inches. Home Directory of Statistical Analyses Conduct and Interpret a One-Sample T-Test What is the One-Sample T-Test? The one-sample t-test is a member of the t-test family. All the tests in the t-test family compare differences in mean scores of continuous-level (interval or ratio), normally distributed data. Unlike the independent or dependent-sample t-tests, the one-sample t-test works with only one mean score. The one-sample t-test compares the mean of a single sample to a predetermined value to determine if the sample mean is significantly greater or less than that value. An example research question for an independent sample t-test would be, "Do boys and girls differ in their SAT scores?" The dependent sample t-test compares two matched scores or measurements (such as before vs. after). An example research question for a dependent sample t-test would be, "Do pupils' grades improve after they receive tutoring?" On the other hand, the one-sample t-test compares the mean score found in an observed sample to some predetermined or hypothetical value. Typically, the hypothetical value is the population mean or some other theoretically derived value. Aligning theoretical framework, gathering articles, synthesizing gaps, articulating a clear methodology and data plan, and writing about the theoretical and practical implications of your research are part of our comprehensive dissertation editing services. Schedule Your FREE Consultation with a Dissertation Expert Today Bring dissertation editing expertise to chapters 1-5 in timely manner. Track all changes, then work with you to bring about scholarly writing. Ongoing support to address committee feedback, reducing revisions. Some possible applications of the one-sample t-test include testing a sample against a predetermined or expected value, testing a sample against a certain benchmark, or testing the results of a replicated experiment against the original study. For example, a researcher may want to determine if the average age of retiring in a certain population is 65. The researcher would draw a representative sample of people entering retirement and ask at what age they retired. A one-sample t-test could then be conducted to compare the mean age obtained in the sample (e.g., 63) to the hypothetical test value of 65. The t-test determines whether the difference we find in our sample is larger than we would expect to see by chance. The One-Sample T-Test in SPSS In this example, we will conduct a one-sample t-test to determine if the average age of a population of students is significantly greater or less than 9.5 years. Before we actually conduct the one-sample t-test, our first step is to check the distribution for normality. This may be done with a Q-Q Plot (located under Analyze > Descriptive Statistics in SPSS). Then we simply add the variable we want to test (age) to the box and confirm that the test distribution is set to Normal. This will create the diagram you see below. The output shows that small values and large values somewhat deviate from normality. As an additional check, we can run a Kolmogorov-Smirnov (K-S) test to test the null hypothesis that the variable is normally distributed. We find here that the K-S test is not significant; thus, we cannot reject the null hypothesis and may assume that age is normally distributed. Let's move on to the one-sample t-test, which can be found in Analyze > Compare Means > One-Sample T Test... The one-sample t-test dialog box is fairly simple. We add the test variable age to the list of Test Variables and then enter the Test Value. In our case, the hypothetical test value is 9.5. The dialog Options... gives us the setting for how to manage missing values and also the opportunity to specify the width of the confidence interval used for testing. Once all of the appropriate options are set, click OK to run the analysis. The figure below shows the output. The "One-Sample Statistics" section shows descriptive statistics for the sample, including the mean being compared to the test value. The "One-Sample Test" section shows the results of the t-test. In this case, the null hypothesis is that the mean of the sample is equal to 9.5. For the purpose of this example, we will set our significance (alpha) level to .05. The Sig. column displays the p-value for the test. The results show that the p-value (.592) is greater than .05. This suggests that the null hypothesis cannot be rejected, and the age of the sample is not significantly different from 9.5.

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