Paired-t command.

Minitab - Untitled

Minitab 17 Paired-t command

for confidence intervals and hypothesis tests on paired data

Read this AFTER you read the 1-sample-t document. This does not repeat the basic ideas there.

<u>File Edit Data Calc Stat Graph Editor Tools Window Help Assistant</u> Basic Statistics <u>D</u>isplay Descriptive Statistics... 📂 🔒 I 🧼 I 🐰 🗅 🖺 ) Regression • Store Descriptive Statistics... <u>ANOVA</u> • <u>Graphical Summary...</u> DOE 🖇 Session ► μ<sup>z</sup> 1-Sample <u>Z</u>... Control Charts ► H\_ 1-Sample t... Quality Tools • <u>µ\_\_\_\_2</u>-Sample t... Reliability/Survival Multivariate • ▶ 💾 1 F Paired t Time Series Determine whether the means of two Tables dependent groups differ. Use to λ 1-<u>N</u>onparametrics compare measurements that are Equivalence Tests 🕨 👌 🚑 2-: made on the same items under different conditions. Power and Sample Size  $\sigma^2 = 1 \sqrt{\frac{1}{2}}$ × Paired t for the Mean -53 Paired t: Options Each sample is in a column Subj Ŧ Difference = mean of (sample 1 - sample 2) C4 C5 With Without Sample 1: With Confidence level: 95.0 Sample 2: Without Hypothesized difference: 0.0 Alternative hypothesis: Difference ≠ hypothesized difference • Help Cancel <u>O</u>K Select Options.. Graphs... Help <u>O</u>K Cancel

Method 1: You have the two columns of data.

Paired t for the Mean	Paired t for the Mean
Each sample is in a column   Sample 1:   With   Sample 2:	Each sample is in a column   Paired t: Graphs   Image: Histogram of differences
	✓ Individual value plot of differences     ✓ Boxplot of differences
Select Options Graphs   Help QK Cancel	Help <u>QK</u> Cancel Help <u>QK</u> Cancel

**Method 2**: You already have one column of the differences or summarized data on the differences. Then just use the 1-sample-t command on that column.