

StatCalc Pro V1.0.1

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1. BASIC INFORMATION

StatCalc Pro is a program designed for the TI-83+/TI-84+ line of Texas Instruments calculators. These calculators contain some basic statistics functions, yet lack both further statistics capabilities and friendly result output. StatCalc Pro adds these missing capabilities and outputs to your TI-83+/TI-84+, giving you the full statistical power you deserve from your handheld calculator!

With our most powerful version, StatCalc Pro, you can take advantage of the unused potential of your device through full statistical calculations and analyses. Designed for use in any field requiring statistics, StatCalc Pro utilizes simple data entry and yields fast, readable results that are concise yet complete.

Thanks for choosing StatCalc Pro, the StatCalc program family's most comprehensive product. Provided to you for free, this program will give you the full range of statistical options that you desire from your TI calculator. Enjoy!

-tschiggers and Burdseye

2. PROGRAM FEATURES

- Calculate z-score
- Calculate p-value from observations, z-scores, t-scores, and chi-squared statistic
- Calculate an observation from a percentage, proportion, percentile, and z-score
- Test for outliers
- Five number summary from any list
- Probabilities:
 - single random variable and independent random variables
 - binomial variable, including mean and standard deviation
 - geometric variable, including average number of trials for first success
- Sampling distribution calculations
- Calculate z^*
- Calculate t^*
- Confidence intervals:

- one sample z-distribution
- one sample t-distribution
- two sample t-distribution
- matched pairs t-distribution
- one proportion z-distribution
- two proportion z-distribution
- linear regression t-distribution
- Significance tests:
same as confidence intervals, including:
 - one-way chi-squared distribution (goodness of fit)
 - matrix chi-squared distribution
- Option to set output decimal places from none to four

3. RELEASE NOTES

StatCalc Pro V1.0.1
 Mod 23, Beta Release
 For TI-83+/TI-84+ Family
 STATCALC.8XP File size on calc: 21763 bytes
 Released on Monday 05-02-2005

Second documented StatCalc release
 First StatCalc release on ticalc.org

All tests and intervals assume simple random sample
 Previous errors in line :LBL FV resolved; some errors remain in archiving

WARNING: StatCalc Pro V1.0.1 uses a substantial amount of RAM memory. It is recommended that the user free as much RAM as possible before attempting to run this program. Failure to do so will result in slow calculations and possible memory failures.
 StatCalc Pro V1.0.1 uses all real variables (A-Z, theta) on the TI calculator. It is recommended all real variables, lists, and matrices are grouped prior to running StatCalc.

4. CREDITS

Much thanks to Mr. Boughton of DSHS for his amazing technicolor dream-worksheets. Also thanks to the students in Boughton's fifth hour statistics class for testing StatCalc and eventually ripping it off. Much is indebted to the Slimey_Limey, Detached Solutions and TI itself. Final thanks to Spaghetti-Os, Quito Menendez, Tang, Danny Z, Clar-dizzle, June von Lichtenstein, and the noble moose.