

# StatCalc AP V1.0.1

1. Basic Information
2. Program Features
3. Release Notes
4. Credits

## 1. BASIC INFORMATION

StatCalc AP Edition 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 AP Edition adds many of these missing capabilities and outputs to your TI-83+/TI-84+, giving you the statistical power you deserve from your handheld calculator!

With our midrange version, StatCalc AP Edition, you can take advantage of the unused potential of your device through full statistical calculations and analyses. Designed for use in AP classes and college prep courses, StatCalc AP Edition utilizes simple data entry and yields fast, readable results that are concise yet complete.

Thanks for choosing StatCalc AP Edition, the perfect solution for AP Statistics courses. Provided to you for free, this program will give you a wider range of statistical options for the TI-83+/TI-84+. Enjoy!

-tschiggers and Burdseye

## 2. PROGRAM FEATURES

- Recall formula for 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
- 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
- Significance tests:  
same as confidence intervals
- Option to set output decimal places from none to four

### 3. RELEASE NOTES

StatCalc AP V1.0.1

Mod 2, Beta Release

For TI-83+/TI-84+ Family

STATS4AP.8XP File size on calc: 17917 bytes

Released on Monday 05-02-2005

All tests and intervals assume simple random sample

**WARNING:** StatCalc AP 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 AP 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.