

How to Calculate Values for Statistics Using the TI84 Calculator

- **To enter data into a list** go to STAT,EDIT,Edit.
- **To calculate statistics**, enter data in a list, then go to STAT,CALC,1VarStats.
- **To construct a confidence interval:**
 - If it's about a proportion, go to STAT,TESTS,1PropZInt.
 - If it's about a mean:
 - If the population standard deviation is known, go to STAT,TESTS,ZInterval.
 - If the population standard deviation is not known, go to STAT,TESTS,TInterval.
- **To run a hypothesis test:**
 - If it's about a proportion, go to STAT,TESTS,1PropZTest.
 - If it's about a mean:
 - If the population standard deviation is known, go to STAT,TESTS,ZTest.
 - If the population standard deviation is not known, go to STAT,TESTS,TTest.
- **To find the area under a normal curve** go to DISTR,normalcdf.
- **To find the cutoff data value when you know the area under the normal curve**, go to DISTR,InvNorm.
- **To find a binomial probability**, go to DISTR,binompdf. This gives either one value for one specific number of successes, or populates a list with all values when used with STO→. To find the cumulative probability from 0 successes through the number of successes entered, use binomcdf.
- **To do linear regression**, put the x values in a list and the y values in another list. Then use either: STAT,CALC,LinReg or STAT,TESTS,LinRegTTest.

**** See next page for information about parameters needed for calculator functions. *****

USING THE TI-84 FOR STATISTICS

Helpful keys to know: (), ^ , arrows, (-), - , X, STAT, WINDOW, ZOOM (9), GRAPH

2ND : ANS, ENTRY, DISTR, STAT PLOT, QUIT

STAT menus: (use arrow keys to choose a menu)

EDIT

- 1: Edit
- 2: SortA(*listname*)
- 3: SortD(*listname*)
- 4: ClrList *listname* or *listname1*, *listname2*, ...
- 5: SetupEditor

CALC

- 1: 1VarStats *listname*
- 2: 2VarStats *listname1*, *listname2*
- ...
- 4: LinReg(ax+b) *listname1*, *listname2*
- ...

TESTS

- 1: ZTest...
- 2: TTest...
- ...
- 5: 1-PropZTest...
- ...
- 7: ZInterval...
- 8: TInterval...
- ...
- A: 1-PropZInt...
- ...
- F: LinRegTTest...

DISTR menu (2nd VARS)

- 1: normalpdf(*low value*, *high value*, *mean*, *std dev*)
- 2: normalcdf(*low value*, *high value*, *mean*, *std dev*)
- 3: invNorm(*area to left of value*, *mean*, *std dev*)
- ...
- A: binompdf(*n*, *p*, *x*) **or** (*n*, *p*) STO-> *listname*
- B: binomcdf(*n*, *p*, *x*)