Save This Sheet !

TI-Nspire Quick Reference Sheet

Algebra 1 Level

To Graph Lines (functions):

1. From HOME, choose *Graphs & Geometry Application.*
2. Type line in *f1*(*x*)= (at the bottom)
3. Hit ENTER to display graph.
4. Hit MENU - #4 WINDOW to control the screen view.
5. Use MENU-#5 TRACE–GRAPH to move spider on graph – arrow up/down between graphs
6. Use TAB to move between entering function and graph area.

To See Decimal Answers:

On *Calculator App* use **ctrl Enter.**

To Find Intersection Pts:

1. Graph both equations.
2. Hit MENU
   #6 POINTS & LINES
   #3 Intersection Points
3. Move the pointer near the point of intersection. When a "pencil" appears, hit NavPad center.

Calculator ID #:
From HOME, choose *SYSTEM INFO*, #4 About.
Then arrow down for Product ID number.

Record this number.

To Plot Histograms and Box-Whisker Plots:

1. On *Lists & Spreadsheet App,* enter data in a list.
2. Arrow to top of column and NAME your list.

For Histogram: Press MENU, #3 Data, #4 Quick Graph
CTRL-TAB will move between split screens. From right window, hit MENU, #1 Plot Type, #3 Histogram.

For Box-Whisker: HOME, choose *Data & Statistics* App, hover over "Click to add variable" at bottom, Click, choose your list name.
CTRL-MENU, change to Box Plot. (For Whisker Control: MENU #2, #3)

To Get Statistical Information (including 5 number summary):

1. Enter data on *List & Spreadsheet App*. Be sure to name the list.
2. Press MENU, #4 Statistics, #1 Stat Calculations, #1 One-Variable Statistics
3. The following results (and more) are returned to the spreadsheet columns:

$\bar{X}$ = mean
Sx = the sample standard deviation
σ_x = the population standard deviation
n = the sample size (# of pieces of data)

Min*X* = the smallest data entry (minimum)
Q_1x = data at the first quartile
Median*X* = data at the median (second quartile)
Q_3x = data at the third quartile
Max*X* = the largest data entry (maximum)

To Get Scatter Plot and Line of Best Fit (Linear Regression)

1. Enter data on *List & Spreadsheet App*. Be sure to name the list.
2. From HOME, choose *#5 Data & Statistics*, Hit ENTER.
3. Using NavPad, move to bottom and choose x-variable list name, then move left and choose y-variable list name. Scatter plot appears.
4. For Line of Best Fit (Linear Regression): Hit MENU, #3 Actions, #5 Regression, #1 Show Linear (*mx* + *b*)

Note: A scatter plot can also be prepared on the *Graphs & Geometry App.* Hit MENU, #3 Graph Type, #4 Scatter Plot, ENTER. At the bottom, highlight box and choose list names for the x and y values. Hit MENU, #4 Window, #9 Zoom Data, ENTER. Scatter plot appears.