







An “Inspiring” Scavenger Hunt using the TI-Nspire Handheld!

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










Getting to Know the Keypad

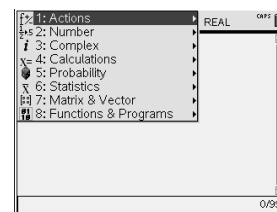
1. How many keypads are there for this device? ____
Slide in the TI-Nspire keypad for the remainder of this adventure.
2. What color are the letters? _____
3. What key is located under the  key? _____
4. Which key do you push to access the light blue functions on the key pad?

5. The CLICK button is located in the center of the NavPad. What body part appears on the CLICK button? _____
6. What geometric shape are the black keys? _____ The black keys along the sides and top are operational keys. Look carefully at the black keys, draw the key that you think might allow access to the calculator’s catalog? _____
7. If you make a mistake, you can press   to “undo.” This works like the backspace key on a computer.
8. To adjust the contrast, hold down the  and press  or  keys to lighten or darken the screen.



Navigating the Handheld

9. Press  and the  key. There are ____ different options from which to choose. Which one might you select to graph a line? _____ Which one/ones remind you of some computer functions? _____
10. Press  for Systems Info. Arrow down or press  to learn about your TI-Nspire handheld. What version is your calculator? _____ Arrow further down. What is the TI website? _____ Press  to go to  and press . Press    for 3:Handheld Status. Here you find the available memory and battery status. Press  
11. Which key will be helpful if you forget something? _____
12. Press  to access the calculator. A blank page appears on the screen and a tab labeled 1.1. appears in the top left. This means you are in Problem 1, Page 1. A _____ appears in the bottom right of the screen. Type in $\sqrt{625}$ and press  Type in $6^2 \cdot \pi$ and press  Type in $[4-3(2-4)^3-7]^2$ and press . Did you get 441? _____ What do you think the 3/99 that appears in the bottom right of the screen means? _____
13. Press . Does your screen look like this? ____ Explore each of these menus using the arrow keys on the NavPad. Under 2: Number, arrow down to 6: Fraction Tools and select 1: Proper Fractions and press  and type in 56/9.

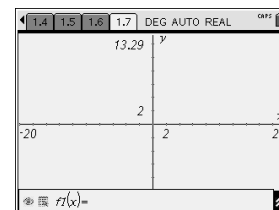


What appears on your screen? _____ What does this represent? _____





Press \blacktriangle twice and press $\frac{\square}{\square}$ so that a black box appears around the problem. Press $\frac{\square}{\square}$ and edit the problem using the \blacktriangleleft and the $\frac{\square}{\square}$. Type in $57/9$ $\frac{\square}{\square}$. What do you notice? _____ Look under 4:Calculations, what APP on the TI-84+ might be helpful when buying a car? _____? Press esc until you back out of the various menus.



14. Press $\frac{\square}{\square}$ $\frac{\square}{\square}$ to access 2:Graphs and Geometry. Press menu .



Explore each of the menus using the arrow keys on the NavPad. Under which option can you add a grid to your graph? _____ Did you successfully add a grid to your graph? _____ How many Graph Types are there? _____ What figure appears beside 7: Measurement? _____

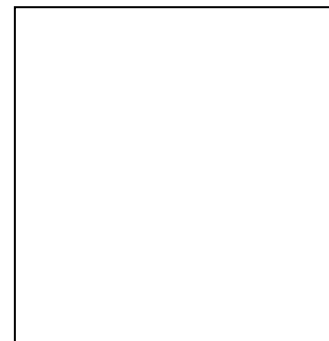



15. Plot points (2,2) and (4,-2) on graph paper and using “rise over run” count the slope of the line passing through the points. Use the Slope Formula to algebraically determine the slope of the line through the coordinates. Now use TI-Nspire to check. Press menu $\frac{\square}{\square}$ 6: Points and Lines and $\frac{\square}{\square}$ 1:Point. What object appears on the screen beside the word *point*? _____ Use the NavPad to move around the graph to get to the desired coordinate and *point on* will appear on the screen. Press $\frac{\square}{\square}$ or $\frac{\square}{\square}$ and esc . Repeat the process for the next coordinate. Press menu $\frac{\square}{\square}$ 6:Points and Lines and $\frac{\square}{\square}$ 4:Line. Click on one of the coordinates and maneuver the NavPad until a dotted line appears passing through the other coordinate. Press $\frac{\square}{\square}$ and esc . Use the NavPad to arrow to the line until it flashes. Press menu $\frac{\square}{\square}$ $\frac{\square}{\square}$. What “ghosted” number appears beside the line? _____ What does the number represent? _____ Press $\frac{\square}{\square}$ and use the NavPad to place the number somewhere along the line and press $\frac{\square}{\square}$ again to paste it into place. Move the arrow to hover over one of the points until it turns into an open fist and the point is blinking. Press ctrl $\frac{\square}{\square}$ to close the fist. Use the NavPad to drag the point around the graph. What do you notice? _____ What is the slope of a horizontal line? _____ What symbol appears when you make the line vertical? _____ What is the slope of a vertical line? _____ Press esc .
16. Press $\frac{\square}{\square}$ $\frac{\square}{\square}$ 3:Lists and Spreadsheets. What Microsoft Office program does this resemble? _____ The columns are labeled A, B, C, etc so always name your lists. The rows are labeled _____. Arrow around the spreadsheet and look at the bottom left corner of your screen. Can you go to cell E3 in the spreadsheet? _____
17. Press $\frac{\square}{\square}$ $\frac{\square}{\square}$ 6:New Document. Press $\frac{\square}{\square}$ 3:Lists and Spreadsheets. The light gray line that appears below the dark gray columns is called the command line. To simulate rolling a single die 25 times, type in $=\text{randint}(1,6,25)$ below Column A and press $\frac{\square}{\square}$. Where is the = key? _____ Arrow up to the white space to the right of Column A and label the column *dice*. Press menu $\frac{\square}{\square}$ 1:Actions, 3:Select,

2:Column and making sure you are somewhere in column A, press   3:Data,4:Quick Graph. A split screen appears on the handheld. Look above the  key .

Press   to access this function allowing you to move back and forth between spreadsheet and dot plot. Draw the graph depicting your throw of the dice. Press

  1:Plot type, 2:Box Plot and see a Box-and-Whisker Plot of your data. Repeat the process but this time press 3:Histogram to see a histogram of your data.








18. Press  and draw the icon for 4:Notes _____ Press  .







Select 1:Templates. Complete the template to the right to look like the one on the Proof pg. What option under Format would you select to **bold** a word on a notes page? _____

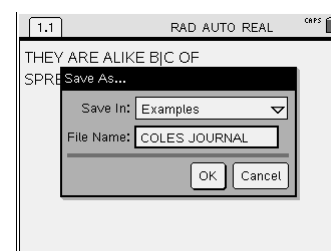
19. Press  and go to 9:Hints. Read the hints on this page and be sure to arrow down to see more. What is the shortcut to Page DOWN? _____ According to the Hints pg list the 3 levels of the handheld and document:


1) _____ 2) _____ 3) _____




What does the  key do? _____

20. Press  7: My Documents and click on the folder labeled **Examples**. How large is the file "Getting Started"? _____ Click on "Getting Started." A dialogue box appears on the screen asking "Do you want to save this document/" Click on **NO** Follow the instructions on the screen. Read carefully through the document. What is the last tab labeled in the document? _____ Go to the tab 4.17, what application is featured? _____ What is the median of the data? _____ Press  , this is the Page Sorter View. Arrow to Problem2, Page 1. What is the title of this page? _____ Press   twice to exit.

21. Press  6:New Document, 4:Add Notes. Use the alphabet keys and  to type your answer to the following question: In what ways are the TI-Nspire and a computer alike? When finished, press   to access  Tools. Use your knowledge of saving documents on a computer to save your response in Examples with your Last name Journal. Press  7: My Documents to see if your file was properly saved.



22. Scroll to Surprise Picture File. Press . A _____ appears on screen while the file is loading. What famous person is pictured here? _____

23. Press  6: New Document and since we've had our TI-Nspire Fun, press   because now we're Done!