I'm human

This user manual covers the TI-83 Plus Silver Edition graphing calculator, which belongs to several products. The document's table of contents is organized as follows: Important US FCC Information Concerning Radio Frequency Interference; Operating the TI-83 Plus Silver Edition Documentation Conventions; and other chapters that cover various features such as menus, variables, math operations, function graphing, parametric graphing, polar graphing, sequence graphing, tables, draw instructions, split screen, matrices, lists, statistics, inferential statistics and distributions, applications, CATALOG, strings, hyperbolic functions, programming, activities, memory and variable management, communication link, and more. Additionally, the document provides information on how to use the TI-83 Plus CellSheet Application, including getting started, entering data, editing data, creating charts, importing and exporting data, and examples of scatter charts, bar charts, pie charts, linear regression, gravity, simple interest, Fibonacci numbers, slope of secant and tangent lines. The manual is provided "as-is" and Texas Instruments shall not be liable for special, collateral, incidental, or consequential damages in connection with or arising out of the purchase or use of these products. TI-83 Plus CellSheet Application Instructions To install and run the application, ensure your calculator has version 1.13 or higher operating system software installed. Press "" to check the OS version and press any key to exit the help screen. CellSheet Application You can turn off this feature by pressing any key. Quitting the Application Press "" from the main spreadsheet screen to quit CellSheet. Completing Tasks - Enter a value in a cell by typing it, then press "É" to apply changes. - Press "Enter" after entering text or a numeric string in a cell. Page 6: Task Instructions - To jump to a specific cell, select "", Menu, and enter the cell address. Note: Press "" before typing alpha characters. Page 7: Editing Options Press 2 / to insert rows above or below selected rows. Press as needed to select columns. Press 2 / to insert columns to the left or right of selected columns. Select cells, rows, or columns and press "M" to clear data. - Copy cells by pressing "" and paste by moving cursor to new cell range, then selecting "". Page 8: Data Management Press "" to copy cell ranges. Press ")" to paste contents and formulas from clipboard into current cell. Page 9: Formula Editing Press ")" to sort a range of cells in ascending or descending order. - Press "6" to set decimal mode display for columns. Page 10: Chart Display - Press "6" to display bar charts for ranges of cells. - Press "7" to display pie charts for ranges of cells. 1. Open the CellSheet application on your TI-83 Plus calculator. 2. Press to display the list of applications on your calculator. 3. Select CellSheet from the menu to start the application. 4. Enter the principal column heading ["] into cell A1. 5. Move the cursor to cell B1 and enter the interest accrued column heading ["]. 6. Enter 1500 into cell A2 and the formula .015 into cell B2. 7. Copy the formulas from cells B2:C2 to cells B3:C3 by pressing and selecting (paste). 8. Press to exit copy/paste mode. 9. Move the cursor to cell A7, copy the formula, and paste it in cell A8. 10. The remaining principal to be paid after six payments is $1370. 11. Select sum from the functions menu and enter the range B2:C3 (press . 12. Press to display a list of default names starting with S01. TI-83 Plus CellSheet Application Guide Move your cursor to the first cell where you want to paste clipboard contents, then select "Paste" to paste multiple times. When inserting or deleting rows and columns, cell references are adjusted for relative cells, but absolute references remain unchanged. Moving a cell moves the entire cell, including formulas and values, and cell references update automatically when pasting. To copy a range, select it, move your cursor to the last cell, and select "Copy" (press . Move your cursor to the first cell where you want to paste, then select "Paste" (press . When deleting rows or columns, be cautious as this action is permanent. You can clear the entire spreadsheet by selecting "Edit" > "Clear Sheet", but this cannot be undone. For 1-Var statistics, select "Options" > "Statistics" > "1-Var Stats" and enter the calculation range. To graph data, create a new spreadsheet file named HEIGHT, set up column headings, and enter data in cells A2 through A8. Then, select "Charts" > "Line", enter XRange (A2:A8) and YRange (B2:B8), and draw the line by accepting default values. Remember to turn off alpha-lock mode when typing special characters like the slash mark (/). To perform linear regression on data, follow these steps: Select "Statistics" > "LinReg(ax+b)" and enter the X-range (A2:A8) and Y-range (B2:B8). Then, press twice to calculate the linear regression. The graph will be displayed, showing the chart and the linear regression line. This demonstrates that the data fits well with the regression line. You can also use formulas in your spreadsheet by filling a range (e.g., D1:D25) with the formula `=SUM(A1:C1)` and incrementing row numbers automatically. To enter a number sequence down or across the spreadsheet, move the cursor to the option and press five times. You can import lists into columns or rows by selecting "Import/Export" > "Matrix". To export data to a variable, select "Menu Options" > "Sort" and enter the range to sort at the prompt. Then, select the sorting mode (e.g., ascending) and press again to sort the range. You can also change the decimal mode setting by moving the cursor to the option and pressing twice. Additionally, you can create a scatter chart by selecting "Charts" > "Scatter Window" and adjusting values as needed. Calculate minutes per mile walked by using the following steps: 1. In cell D2, enter the formula =C2/B2. 2. Copy this formula to cells D3:D11. 3. Select "Scatter" from the CHARTS menu and then select "Window". 4. Enter A2:A11 for XRange and D2:D11 for YRange1. 5. Press ENTER twice to exit trace mode. 6. Use the arrow keys to move between points and display data values. 7. Press F2 to toggle on or off AxesOn or AxesOff. 8. Select "DrawFit" and use the arrow keys to view data elements. 9. Enter a name for the first category at the prompt. 10. Select Horiz or Vertically to change the BAR CHART display. Create a new spreadsheet file named TEMPS with headings MONTH, 1999, and 2000 in cells A1:C1. Enter data from table above into corresponding columns. Select "Scatter" from the CHARTS menu and then select "Window". Enter range for chart at prompt. Press ENTER twice to display the chart. Display a pie chart showing numbers of households with each pet and percentages in each area that have pets. Given article text here The sum of pets in Area 1 of the city is located in cell E2. To create a pie chart showing the percentage of households with pets by city area, select "Chart" from the menu and enter the range for category labels (A2:A5). Enter the title at the prompt: AREAS Title. Press again to display the chart. The gravitational factor for each planet is as follows: - Mercury: 0.38 - Venus: 0.91 - Earth: 1 - Mars: 0.38 - Jupiter: 2.54 - Saturn: 1.08 - Uranus: 0.91 - Neptune: 1.19 - Pluto: 0.06 Calculate the weight of a 125-pound person on other planets using the formula in cell C2: =$C$4*B2. Enter the sequence 1 – 10 in cells B2:B11 and enter the following column headings: * YEAR - the number of years that the principle has earned interest * The sum of the principal and the interest Copy the formula from cell C2 to cells C3:C11 using the fill range option. Compare the slope of the secant line to the tangent line as the point (x+h,f(x+h)) gets closer to the point (x,f(x)) at x = 3. The derivative of the function at x = 3 is the slope of the tangent line. Enter the formula in cell F2 (difference in the slope of the secant and tangent lines) and copy it to cells F3 through F16 using the fill range option. Set up data for the following columns: * NUMS - whole numbers * FIBS - Fibonacci numbers * SQUARES - squares Use the sequence option to fill cells A2:A19 with the sequence of whole numbers {1,2,3,...18}. Enter in cells B2 and B3. The formula in cell B4 is =B2+B3. Copy this formula to cells B5:B19. Enter the formula in cell C2: =$A$1(1+$A$2)^B2. Copy this formula to cells C3:C11 using the fill range option. You can see that Fibonacci numbers grow much faster than squares after step 12. The CellSheet application on your TI-83 Plus calculator cannot sort ranges with formulas and has certain naming restrictions. If you encounter error messages, check the manual for more information. You can save and reload files using TI Connect or TI-GRAph Link software. For any issues with linking settings, try a different cable and reboot your computer. If the problem persists, contact TI-Cares Customer Support for assistance. The manual provides additional information on specific errors. To verify the Flash application version, press 2 and select . The CellSheet application requires at least 49,152 bytes of free flash memory to load. For more information on memory management, refer to your TI-83 Plus manual. For general information, contact ti-cares@ti.com or call 1-800-TI-CARES. For technical questions, call 1-972-917-8324. Provided with a license under the terms of the Restricted Rights, as set forth in FAR 48 CFR 52.227-14 (June 1987) or DFAR 48 CFR 252.227-7013 (October 1988), as applicable. Manufacturer is Texas Instruments Incorporated, with address at 7800 Banner Drive, M/S 3962, Dallas, Texas 75251.