TRS-80®

Model 100 Portable Computer

Spectaculator®
Quick Reference

SPECTACULATOR® QUICK REFERENCE

Entry Marker Movement

Note: Data is not erased when you move the entry
marker.

⮕	Moves entry marker to the cell on the right.
⬅	Moves entry marker to the cell on the left.
⬆	Moves entry marker up to the cell in the previous row.
⬇	Moves entry marker down to the cell in the next row.
(SHIFT) ⮕	Moves entry marker to first column of the next window.
(SHIFT) ⬅	Moves entry marker to first column of the previous window.
(SHIFT) ⬆	Moves entry marker to first row of the previous window.
(SHIFT) ⬇	Moves entry marker to first row of the next window.

Special Keys

(ENTER)	After typing command, number, text, or formula, computer executes command or "enters" information in worksheet.

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(ENTER)	Exits input mode and returns to command mode.
	Exits all help screens.
(?)	Displays the help list for a command menu or a specific command's help list.
(BKSP)	Backspaces cursor in input mode. Moves cursor left one character and erases previous character.
(ESC)	In input mode, erases previous entry at current marker position, allowing you to reenter data.
(SHIFT)(PAUSE)	Exits input mode and returns to command mode.
(TAB)	In command mode, displays next command menu at the bottom of the screen.

Commands

ET ((F1))	**Enter Text** — Position marker and enter text. Limit: 36 characters.
EN ((F2))	**Enter Number** — Position marker and enter number. Limits: 14 significant digits, $1 \times 10E62$ and $1 \times 10E-64$.
CW ((F3))	**Change Column Width** — To change column width, enter Column No., width. Type **ALL**,width to change width of all columns. Limits: 3-36.
CA ((F4))	**Calculate** — Computes and displays the values.

DF ((F7))	**Display Formula** — Displays column and/or row formula on which the marker is currently positioned.
ME ((F8))	**Menu** — Returns you to Main Menu or allows you to start a new worksheet.
IR ((F1))	**Insert Row** — Position entry marker on desired row to enter new data or create a blank row. Data and formula previously in that row shift downward. Other formulas change to reflect insertion.
IC ((F2))	**Insert Column** — Position entry marker on desired column to enter new data or create a blank column. Data and formula previously in that column shift to the right. Other formulas change to reflect insertion.
DR ((F3))	**Delete Row** — Position marker on desired row to erase numbers, text, and formulas in that row. Other formulas change to reflect deletion.
DC ((F4))	**Delete Column** — Position entry marker on desired column to erase numbers, text, and formulas in that column. Other formulas change to reflect deletion.
CR ((F5))	**Clear Row** — Position entry marker on desired row to erase all calculated values in that row.

CC (F6)   **Clear Column** — Position entry marker on desired column to erase all calculated values in that column.

MM (F1)   **Move Marker** — To move entry marker to specific cell, enter Row No., Column No. Press **ENTER** to move marker to Cell 1,1.

LO (F2)   **Load from Tape** — Current worksheet must be empty. Ready tape recorder, type filename, and press **ENTER**. Worksheet appears on the screen.

SA (F3)   **Save on Tape** — Ready tape recorder, type filename (up to six characters), and press **ENTER**.

FR (F4)   **Free Memory** — Displays number of free bytes in memory left to enter data in worksheet.

LI (F5)   **List to Printer** — Move marker to first cell to be printed, select **LI** command, move marker to last cell to be printed, and then press **ENTER**.

PS (F6)   **Partial Save** — Move marker to first cell to be saved, select **PS** command, move marker to last cell to be saved, and then press **ENTER**.

Formula Commands, Operation Symbols, and Functions

RF (F5)   **Row Formula Entry** — Position marker on row in which calculated values will be displayed, and enter formula. Operation symbols include $+$, $-$, and all symbols and functions listed below.

CF (F6)   **Column Formula Entry** — Position marker on column in which calculated values will be displayed, and enter formula. Can include all operation symbols and functions used in Row Formula Entry.

*   Multiplication.

/   Division.

( )   Indicates to perform enclosed operation first.

^   Exponential symbol. Number following ^ is power used to raise number preceding ^

PI   Uses 3.1415926535898 as the value for pi.

I   Indicates an integer calculated value. Rounds off the numbers to the left of the decimal. Type I before the formula.

D   Indicates a decimal calculated value carried out to a maximum of 14 significant digits. Type D before the formula.

Note: If neither D nor I is given before the formula, the decimal calculated value is carried out to two decimal places.

Note: In the following 17 functions, type the function's three-letter abbreviation followed by the constant, or column or row number enclosed in parenthesis.

SQR   Takes the square root(s) of the number, or the values in the column or row following **SQR**.

SUM   Adds the values starting from the column or row following **SUM** to the column or row where marker is positioned or text is entered.

SMT   Gives cumulative totals plus the final computed total of the row or column following **SMT**.

MIN   Gives the minimum value of the numbers starting from the row or column following **MIN**.

MAX   Gives the maximum value of the numbers starting from the row or column following **MIN**.

AVE   Gives the average value of the numbers starting from the row or column following **AVE**.

Note: For all trigonometric functions, worksheet values for angles must be entered in radians. Calculated values will be in radians.

SIN   Gives the sines of the values in the row or column following **SIN**.

COS   Gives the cosines of the values in the row or column following **COS**.

TAN   Gives the tangents of the values in the row or column following **TAN**.

ATN   Gives the arctangents of the values in the row or column following **ATN**.

EXP   Gives the "natural" antilogs of the values in the row or column following **EXP**.

LOG   Gives the natural logarithms of the values in the row or column following **LOG**.
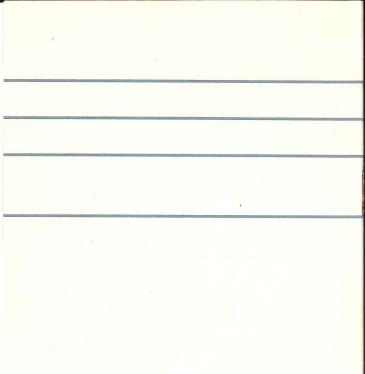
ABS   Gives the absolutes of the values in the row or column following **ABS**.

SGN   Gives a -1 for negative numbers, 0 for zeroes, and 1 for positive numbers in the row or column following **SGN**.

FIX   Gives the whole number portions of the values in the row or column following **FIX**. (For negative numbers, truncates and does not round up to nearest whole number.)

INT   Gives the whole number representations of the values in the row or column following **INT**. For both negative and positive numbers, gives the nearest whole number.

RND   Returns a pseudo-random number between 0 and 1 for the values in the row or column following **RND**.