

MODEL **EL-520X**

**OPERATION MANUAL**

PRINTED IN CHINA / IMPRIMÉ EN CHINE / IMPRESO EN CHINA  
 (TINSEAO99EHCA)

**INTRODUCTION**

Thank you for purchasing the SHARP Scientific Calculator Model EL-520X.

About the calculation examples (including some formulas and tables), refer to the reverse side of this English manual. Refer to the number on the right of each title in the manual for use. After reading this manual, store it in a convenient location for future reference.

**Operational Notes**

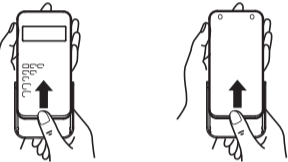
- Do not carry the calculator around in your back pocket, as it may break when you sit down. The display is made of glass and is particularly fragile.
- Keep the calculator away from extreme heat such as on a car dashboard or near a heater, and avoid exposing it to excessively humid or dusty environments.
- Since this product is not waterproof, do not use it or store it where fluids, for example water, can splash onto it. Raindrops, water spray, juice, coffee, steam, perspiration, etc. will also cause malfunction.
- Clean with a soft, dry cloth. Do not use solvents or a wet cloth. Avoid using a rough cloth or anything else that may cause scratches.
- Do not drop it or apply excessive force.
- Never dispose of batteries in a fire.
- Keep batteries out of the reach of children.
- This product, including accessories, may change due to upgrading without prior notice.

**NOTICE**

- SHARP strongly recommends that separate permanent written records be kept of all important data. Data may be lost or altered in virtually any electronic memory product under certain circumstances. Therefore, SHARP assumes no responsibility for data lost or otherwise rendered unusable whether as a result of improper use, repairs, defects, battery replacement, use after the specified battery life has expired, or any other cause.
- SHARP will not be liable nor responsible for any incidental or consequential economic or property damage caused by misuse and/or malfunctions of this product and its peripherals, unless such liability is acknowledged by law.

- Press the RESET switch (on the back), with the tip of a ball-point pen or similar object, only in the following cases. Do not use an object with a breakable or sharp tip. Note that pressing the RESET switch erases all data stored in memory.
  - When using for the first time
  - After replacing the batteries
  - To clear all memory contents
  - When an abnormal condition occurs and all keys are inoperative. If service should be required on this calculator, use only a SHARP servicing dealer, SHARP approved service facility, or SHARP repair service where available.

**Hard Case**



**DISPLAY**



- During actual use, not all symbols are displayed at the same time.
- Certain inactive symbols may appear visible when viewed from a far off angle.
- Only the symbols required for the usage under instruction are shown in the display and calculation examples of this manual.

→/← : Appears when the entire equation cannot be displayed. Press (→/←) to see the remaining (hidden) section.

xy/rθ : Indicates the mode of expression of results in the complex calculation mode.

↕/↕ : Indicates that data can be visible above/below the screen. Press (↕/↕) to scroll up/down the view.

2ndF : Appears when (2ndF) is pressed.

HYP : Indicates that (HYP) has been pressed and the hyperbolic functions are enabled. If (2ndF)(HYP) are pressed, the symbols "2ndF HYP" appear, indicating that inverse hyperbolic functions are enabled.

**Metric Conversions [15]**

Use the quick reference card and the English manual reverse side. Unit conversions can be performed in the normal mode (when not set to binary, pental, octal, or hexadecimal), equation mode and statistics modes.

No.	Remarks	No.	Remarks
1	m : inch	23	fl oz(US): fluid ounce(US)
2	cm : centimeter	24	ml : milliliter
3	ft : foot	25	fl oz(UK): fluid ounce(UK)
4	m : meter	26	mf : millifoot
5	yd : yard	27	J : Joule
6	m : meter	28	cal : calorie
7	mile : mile	29	J : Joule
8	km : kilometer	30	calis : Calorie (15°C)
9	n mile : nautical mile	31	J : Joule
10	m : meter	32	calr : i.T. calorie
11	acre : acre	33	hp : horsepower
12	m <sup>2</sup> : square meter	34	W : watt
13	oz : ounce	35	ps : French horsepower
14	g : gram	36	W : watt
15	lb : pound	37	
16	kg : kilogram	38	Pa : Pascal
17	°F : Degree Fahrenheit	39	atm : atmosphere
18	°C : Degree Celsius	40	Pa : Pascal
19	gal (US) : gallon (US)	41	(1 mmHg = 1 Torr)
20	liters : liter	42	Pa : Pascal
21	gal (UK) : gallon (UK)	43	Pa : Pascal
22	l : liter	44	J : Joule

**Calculations Using Engineering Prefixes [16]**

Calculation can be executed in the normal mode (excluding N-base) using the following 9 types of prefixes.

Prefix	Operation	Unit
k (kilo)	MATH1 1 0 0	10 <sup>3</sup>
M (Mega)	MATH1 1 1	10 <sup>6</sup>
G (Giga)	MATH1 1 2	10 <sup>9</sup>
T (Tera)	MATH1 1 3	10 <sup>12</sup>
m (milli)	MATH1 1 4	10 <sup>-3</sup>
μ (micro)	MATH1 1 5	10 <sup>-6</sup>
n (nano)	MATH1 1 6	10 <sup>-9</sup>
p (pico)	MATH1 1 7	10 <sup>-12</sup>
f (femto)	MATH1 1 8	10 <sup>-15</sup>

**Modify Function [17]**

Calculation results are internally obtained in scientific notation with up to 14 digits for the mantissa. However, since calculation results are displayed in the form designated by the display notation and the number of decimal places indicated, the internal calculation result may differ from that shown in the display. By using the modify function, the internal value is converted to match that of the display, so that the displayed value can be used without change in subsequent operations.

**Solver Function [18]**

- The x value can be found that reduces an entered equation to "0".
- This function uses Newton's method to obtain an approximation. Depending on the function (e.g. periodic) or 'Start' value, an error may occur (Error 2) due to there being no convergence to the solution for the equation.
- The value obtained by this function may include a margin of error. If it is larger than acceptable, recalculate the solution after changing 'Start' and dx values.
- Change the 'Start' value (e.g. to a negative value) or dx value (e.g. to a smaller value) if:
  - no solution can be found (Error 2),
  - more than two solutions appear to be possible (e.g. a cubic equation).
- to improve the arithmetic precision.
- The calculation result is automatically stored in the X memory.

**Performing Solver function [19]**

- Press (MODE) (0).
- Input a formula with an x variable.
- Press (DATA) (→) to display the data.
- Press (2ndF) (←) to confirm. The default value is "0".
- Input dx value (minute interval).
- Press (ENT).

**SIMULATION CALCULATION (ALGB) [19]**

- If you have to find a value consecutively using the same formula, such as plotting a curve line for 2x<sup>2</sup> + 1, or finding the variable for 2x + 2y = 14, once you enter the equation, all you have to do is to specify the value for the variable in the formula. Usable variables: A-F, M, X and Y. Unusable functions: Random function.
- Simulation calculations can only be executed in the normal mode.
- Calculation ending instructions other than (□) cannot be used.

**Performing Calculations [20]**

- Press (MODE) (0).
- Input a formula with at least one variable.
- Press (2ndF) (←) to confirm.
- Variable input screen will appear. Input the value of the flashing variable, then press (ENT) to confirm. The calculation result will be displayed after entering the value for all used variables.
  - Only numerical values are allowed as variables. Input of formulas is not permitted.
  - Upon completing the calculation, press (2ndF) (←) to perform calculations using the same formula.

**ALPHA :** Appears when (ALPHA) (STAT VAR), (STO) or (RCL) is pressed.

**FIX/SCI/ENG :** Indicates the notation used to display a value.

**DEG/RAD/GRAD :** Indicates angular units.

**STAT :** Appears when statistics mode is selected.

**M :** Indicates that a value is stored in the independent memory.

**?** : Indicates that the calculator is waiting for a numerical value to be entered, such as during simulation calculation.

**∠ :** Appears when the calculator shows an angle as the result in the complex calculation mode.

**i :** Indicates an imaginary number is being displayed in the complex calculation mode.

**BEFORE USING THE CALCULATOR**

**Key Notation Used in this Manual**  
 In this manual, key operations are described as follows:

2ndF	To specify key: (2ndF) (e <sup>x</sup> )
2ndF	To specify In: (IN)
2ndF	To specify F: (ALPHA) (F)

Functions that are printed in orange above the key require (2ndF) to be pressed first before the key. When you specify the memory, press (ALPHA) first. Numbers for input value are not shown as keys, but as ordinary numbers.

**Power On and Off**  
 Press (ON/C) to turn the calculator on, and (2ndF) (OFF) to turn it off.

**Clearing the Entry and Memories**

Operation	Entry (Display)	M F1-F4	X Y	A-F X, Y ANS	STAT*1 STAT VAR*2
(ON/C)	○	○	○	○	○
(2ndF) (CA)	○	○	○	○	○
Mode selection	○	○	○	○	○
(2ndF) (M CLR) (0) (0) *3	○	○	○	○	○
(2ndF) (M CLR) (1) (0) *4	○	○	○	○	○
RESET switch	○	○	○	○	○

- : Clear
- × : Retain
- \*1 Statistical data (entered data).
- \*2 x, xx, σx, n, Σx, Σx<sup>2</sup>, y, sy, σy, Σy, Σy<sup>2</sup>, Σxy, r, a, b, c.
- \*3 All variables are cleared.
- \*4 This key combination functions the same as the RESET switch.

**Memory clear key**

- Press (2ndF) (M CLR) to display the menu. **MEM RESET 0 1**
- To clear all variables (M, A-F, X, Y, ANS, F1-F4, STAT VAR), press (0) (0) or (0) (ENT).
- To RESET the calculator, press (1) (0) or (1) (ENT).
- The RESET operation will erase all data stored in memory, and restore the calculator's default setting.

**Entering and Correcting the Equation [Cursor keys]**

- Press (←) or (→) to move the cursor. You can also return to the equation after getting an answer by pressing (→) (←).
- See the next section for using the (↑) and (↓) keys.
- See "SET UP menu" for cursor use in the SET UP menu.

**Insert mode and Overwrite mode in the Equation display**

- Pressing (2ndF) (INS) switches between the two editing modes: insert mode (default); and overwrite mode. A triangular cursor indicates that an entry will be inserted at the cursor, while the rectangular cursor indicates to overwrite preexisting data as you make entries.
- To insert a number in the insert mode, move the cursor to the place immediately after where you wish to insert, then make a desired entry. In the overwrite mode, data under the cursor will be overwritten by the number you enter.
- The mode set will be retained until the next RESET operation.

**Deletion key**

- To delete a number/function, move the cursor to the number/location you wish to delete, then press (DEL). If the cursor is located at the right end of an equation, the (DEL) key will function as a back space key.

**Multi-line Playback Function [1]**

Previous equations may be recalled in the normal mode. Equations also include calculation ending instructions such as "→" and a maximum of 142 characters can be stored in memory. When the memory is full, stored equations are deleted in the order of the oldest first. Pressing (→) will display the previous equation and the answer. Further pressing (→) will display preceding equations (after returning to the previous equation, press (→) to view equations in order). In addition, (2ndF) (→) can be used to jump to the oldest equation.

- To edit an equation after recalling it, press (→) (←).
- The multi-line memory is cleared by the following operations: (2ndF) (CA), (2ndF) (OFF) (including the Automatic Power Off feature), mode change, memory clear ((2ndF) (M CLR)), RESET, (2ndF) (M CLR) (0) (0), (2ndF) (M CLR) (1) (0), constant calculation, differential/integral calculation, chain calculation, angle unit conversion, coordinate conversion, N-base conversion, numerical value storage to the temporary memories and independent memory, solver function and simulation calculation.

- Variables and numerical values stored in the memories will be displayed in the variable input screen. To change a numerical value, input the new value and press (ENT).
- Performing simulation calculation will cause memory locations to be overwritten with new values.

**STATISTICAL CALCULATIONS [20]**

Press (MODE) (1) to select the statistics mode. The seven statistical calculations listed below can be performed. After selecting the statistics mode, select the desired sub-mode by pressing the number key corresponding to your choice.

To change statistical sub-mode, reselect statistics mode (press (MODE) (1)), then select the required sub-mode.

- (0) (SD) : Single-variable statistics
- (1) (LINE) : Linear regression calculation
- (2) (QUAD) : Quadratic regression calculation
- (3) (EXP) : Exponential regression calculation
- (4) (LOG) : Logarithmic regression calculation
- (5) (PWR) : Power regression calculation
- (6) (INV) : Inverse regression calculation

The following statistics can be obtained for each statistical calculation (refer to the table below):

**Single-variable statistical calculation**

Statistics of (1) and value of the normal probability function

**Linear regression calculation**

Statistics of (1) and (2) and, in addition, estimate of y for a given x (estimate y') and estimate of x for a given y (estimate x')

**Exponential regression, Logarithmic regression, Power regression, and Inverse regression calculation**

Statistics of (1) and (2). In addition, estimate of y for a given x and estimate of x for a given y. (Since the calculator converts each formula into a linear regression formula before actual calculation takes place, it obtains all statistics, except coefficients a and b, from converted data rather than entered data.)

**Quadratic regression calculation**

Statistics of (1) and (2) and coefficients a, b, c in the quadratic regression formula (y = a + bx + cx<sup>2</sup>). (For quadratic regression calculations, no correlation coefficient (r) can be obtained.) When there are two x values, press (2ndF) (→).

When performing calculations using a, b and c, only one numeric value can be held.

Symbol	Mean of samples (x data)
$\bar{x}$	Sample standard deviation (x data)
$\sigma_x$	Population standard deviation (x data)
n	Number of samples
$\Sigma x$	Sum of samples (x data)
$\Sigma x^2$	Sum of squares of samples (x data)
$\bar{y}$	Mean of samples (y data)
$\bar{y}'$	Sample standard deviation (y data)
$\sigma_y$	Population standard deviation (y data)
$\Sigma y$	Sum of samples (y data)
$\Sigma y^2$	Sum of squares of samples (y data)
$\Sigma xy$	Sum of products of samples (x, y)
r	Correlation coefficient
a	Coefficient of regression equation
b	Coefficient of regression equation
c	Coefficient of quadratic regression equation

- Use (ALPHA) and (RCL) to perform a STAT variable calculation.

**Data Entry and Correction [21]**

Entered data are kept in memory until (2ndF) (CA) or mode selection. Before entering new data, clear the memory contents.

**[Data Entry]**  
 Single-variable data  
 Data (DATA)  
 Data (→) frequency (DATA) (To enter multiples of the same data)

Two-variable data  
 Data x (→) Data y (DATA)  
 Data x (→) Data y (DATA) frequency (DATA) (To enter multiples of the same data x and y.)

- Up to 100 data items can be entered. With the single-variable data, a data item without frequency assignment is counted as one data item, while an item assigned with frequency is stored as a set of two data items. With the two-variable data, a set of data items without frequency assignment is counted as two data items, while a set of items assigned with frequency is stored as a set of three data items.

**[Data Correction]**

Correction prior to pressing (DATA) immediately after a data entry: Delete incorrect data with (ON/C), then enter the correct data.

Correction after pressing (DATA):  
 Use (→) (←) to display the data previously entered.  
 Press (→) (←) to display data items in ascending (oldest first) order. To reverse the display order to descending (latest first), press the (→) key.

Each item is displayed with "Xn=", "Yn=", or "Nn=" (n is the sequential number of the data set).  
 Display the data item to modify, input the correct value, then press (DATA). Using (→) (←), you can correct the values of the data set all at once.

**Priority Levels in Calculation**

Operations are performed according to the following priority:  
 ① Fractions (1/4, etc.) ② ∠, engineering prefixes ③ Functions preceded by their argument (x<sup>1</sup>, x<sup>2</sup>, n!, etc.) ④ Y<sub>n</sub>, x<sup>n</sup> ⑤ Implied multiplication of a memory value (2Y, etc.) ⑥ Functions followed by their argument (sin, cos, etc.) ⑦ Implied multiplication of a function (2sin30, etc.) ⑧ (C, Cp, P, Q, X, + 10 +, - 11) AND OR, XOR, XNOR ⑨ =, M+, M-, ⇒M, ►DEG, ►RAD, ►GRAD, DATA, CD, →r, →y and other calculation ending instructions  
 • If parentheses are used, parenthesized calculations have precedence over any other calculations.

**INITIAL SET UP**

Mode Selection	Mode Selection
(MODE) (0) : Normal mode (NORMAL)	(MODE) (1) : Statistic mode (STAT)
(MODE) (2) : Equation mode (EQN)	(MODE) (3) : Complex number mode (CPLX)

**SET UP MENU [2]**

- Press (SET UP) to display the SET UP menu.
- A menu item can be selected by:
  - moving the flashing cursor by using (→) (←), then pressing (ENT) (= key), or
  - pressing the number key corresponding to the menu item number.
- If → or ↕ is displayed on the screen, press (↑) or (↓) to view the previous/next menu screen.
- Press (ON/C) to exit the SET UP menu.

**[Determination of the Angular Unit]**

The following three angular units (degrees, radians, and grads) can be specified.

- DEG (°) : Press (SET UP) (0) (0).
- RAD (rad) : Press (SET UP) (0) (1).
- GRAD (g) : Press (SET UP) (0) (2).

**[Selecting the Display Notation and Decimal Places]**

Four display notation systems are used to display calculation results: Floating point; Fixed decimal point; Scientific notation; and Engineering notation.

- When the FIX, SCI or ENG symbol is displayed, the number of decimal places (TAB) can be set to any value between 0 and 9. Displayed values will be reduced to the corresponding number of digits.

**[Setting the Floating Point Numbers System in Scientific Notation]**

Two settings are used to display a floating point number: NORM1 (default setting) and NORM2. number is automatically displayed in scientific notation under a preset range:  
 • NORM1: 0.000000001 ≤ |x| ≤ 9999999999  
 • NORM2: 0.01 ≤ |x| ≤ 9999999999

**STATISTICAL CALCULATIONS**

- Press (MODE) (0) to select the normal mode.
- In each example, press (ON/C) to clear the display. If the FIX, SCI, or ENG indicator is displayed, clear the indicator by selecting "NORM1" from the SET UP menu.

**Arithmetic Operations [3]**

The closing parenthesis (□) just before (=) or (M+) may be omitted.

**Constant Calculations [4]**

- In constant calculations, the addend becomes a constant. Subtraction and division are performed in the same manner. For multiplication, the multiplicand becomes a constant.
- In the constants calculations, constants will be displayed as K.

**Functions [5]**

- Refer to the calculation examples of each function.
- Before starting calculations, specify the angular unit.

**Differential/Integral Functions [6]**

Differential and integral calculations are only available in the normal mode. For calculation conditions such as the x value in differential calculation or the initial point in integral calculation, only numerical values can be entered and equations such as 2<sup>x</sup> cannot be specified. It is possible to reuse the same equation over and over again and to recalculate by only changing the conditions without re-entering the equation.

- Performing a calculation will clear the value in the X memory.
- When performing a differential calculation, enter the formula first and then enter the x value in differential calculation and the minute interval (dx). If a numerical value is not specified for minute interval, x+0 will be |x|×10<sup>-5</sup> and x-0 will be 10<sup>-5</sup> from the value of the numeric derivative.
- When performing an integral calculation, enter the formula first and then enter a range of integral (a, b) and subintervals (n). If a numerical value is not specified for subintervals, calculation will be performed using n=100.

Since differential and integral calculations are performed based on the following equations, correct results may not be obtained, in certain rare cases, when performing special calculations that contain discontinuous points.

- To delete a data set, display an item of the data set to delete, then press (2ndF) (CD). The data set will be deleted.
- To add a new data set, press (ON/C) and input the values, then press (DATA).

**Statistical Calculation Formulas [22]**

Type	Regression formula
Linear	y = a + bx
Exponential	y = a • e <sup>bx</sup>
Logarithmic	y = a + b • ln x
Power	y = a • x <sup>b</sup>
Inverse	y = a + b/x
Quadratic	y = a + bx + cx <sup>2</sup>

In the statistical calculation formulas, an error will occur when:  
 • The absolute value of the intermediate result or calculation result is equal to or greater than 1 × 10<sup>10</sup>.  
 • The denominator is zero.

- An attempt is made to take the square root of a negative number.
- No solution exists in the quadratic regression calculation.



EL-520X

Table of calculator functions and results for EL-520X. Includes sections for Calculation Examples, ANWENDUNGSBEISPIELE, EJEMPLOS DE CALCULO, ESEMPLI DI CALCOLO, REKENVOORBEELDEN, PÉLDASZÁMITÁSOK, PŘÍKLADY VÝPOČTŮ, RÄKNEEXEMPEL, LASKENTÄESIMERKEJÄ, ПРИМЕРЫ ВЫЧИСЛЕНИЙ, UDREGNINGSKSEMPLER, ตัวอย่างการคำนวณ, نماذج الحسابات, 計算例子, CONTOH-CONTOH PENGHITUNGAN, CONTOH-CONTOH PERHITUNGAN.

Table [1] showing basic arithmetic operations like 3(5+2), 3\*5+2, 3\*5+3\*2, etc.

Table [2] showing scientific notation and percentage calculations like 10000÷3%, 18+6, 15-8, etc.

Table [3] showing addition and subtraction with carry/borrow like 45+285\*3, 18+6, 15-8, etc.

Table [4] showing multiplication and division with remainders like 18+6, 15-8, 42\*(-5)+120, etc.

Table [5] showing trigonometric functions like sin, cos, tan, arcsin, arccos, arctan, etc.

Table [22] showing mathematical formulas like x-bar = sum(x)/n, alpha = sum(x^2 - n\*x-bar^2)/n, etc.

Table [23] showing probability density functions like P(t) = 1/sqrt(2\*pi) \* e^(-t^2/2), Q(t) = 1/sqrt(2\*pi) \* e^(-t^2/2), R(t) = 1/sqrt(2\*pi) \* e^(-t^2/2).

Table [24] showing standardization conversion formulas like (a1x + b1)y = c1, (a2x + b2)y = c2, etc.

Table [25] showing 3-VLE equations like a1x + b1y + c1z = d1, a2x + b2y + c2z = d2, a3x + b3y + c3z = d3.

Table [26] showing QUAD, CUBIC equations like 3x^2 + 4x - 95 = 0, x^3 = ?, x^2 = ?, etc.

Table [27] showing MODE (CPLX) functions like (12-6i) + (7+15i) =, (11+4i) =, etc.

Table [28] showing dynamic range functions like Function, Function, Function, etc.

Table [29] showing dynamic range functions like Function, Function, Function, etc.

Table [30] showing dynamic range functions like Function, Function, Function, etc.

Table [31] showing dynamic range functions like Function, Function, Function, etc.

Table [32] showing dynamic range functions like Function, Function, Function, etc.

Table of calculator functions and results for EL-520X (continued).

- The range of the results of inverse trigonometric functions
• Der Ergebnissbereich für inverse trigonometrische Funktionen
• Plage des résultats des fonctions trigonométriques inverses
• El gama dos resultados das trigonometricas inversas
• La gamma dei risultati di funzioni trigonometriche inverse
• A gama dos resultados das trigonometricas inversas
• La gamma dei risultati di funzioni trigonometriche inverse
• Het bereik van de resultaten van inverse trigonometrie
• Az inverz trigonometriai funkciók eredmény-tartományá
• Rozsah výsledků inverzních trigonometrických funkcí
• Omläng för resultaten av omvända trigonometriska funktioner
• Käanteisten trigonometristen funktioiden tulosten alue
• Диапазон результатов обратных тригонометрических функций
• Område for resultater af omvendte trigonometriske funktioner
• 逆三角函数计算结果的范畴
• Julat hasil fungsi trigonometri songsang
• Kisaran hasil fungsi trigonometri inversi

Table showing trigonometric function ranges like DEG, RAD, GRAD, etc.

Table [6] showing differential and integral functions like dx, dx, etc.

Table [7] showing DRG functions like 90 -> [rad], [g], [°], etc.

Table [11] showing BIN, HEX, OCT, and other base conversion functions.

Table [15] showing CONV functions like 125yd = 7m, etc.

Table [17] showing MDF and SETUP functions like 5=9=ANS, ANS=9=, etc.

Table [18] showing MATH (SOLV) functions like sin x=0.5, Start=0, etc.

Table [21] showing DATA functions like 30, 40, 50, etc.

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Table of calculator functions and results for EL-520X (continued).

Table [9] showing basic arithmetic operations like 6+4=ANS, ANS+5, etc.

Table [10] showing fraction and decimal functions like 1/2 + 4/3, etc.

Table [12] showing trigonometric functions like 1.2, 2.3, etc.

Table [14] showing GNST functions like V0 = 15.3m/s, t = 10s, etc.

Table [15] showing CONV functions like 125yd = 7m, etc.

Table [17] showing MDF and SETUP functions like 5=9=ANS, ANS=9=, etc.

Table [18] showing MATH (SOLV) functions like sin x=0.5, Start=0, etc.

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Table [21] showing DATA functions like 30, 40, 50, etc.

Table of calculator functions and results for EL-520X (continued).

Table [12] showing DMS and DEG functions like 12°39'18.05", etc.

Table [13] showing F to Y conversion functions like x=6, y=4, etc.

Table [14] showing GNST functions like V0 = 15.3m/s, t = 10s, etc.

Table [15] showing CONV functions like 125yd = 7m, etc.

Table [17] showing MDF and SETUP functions like 5=9=ANS, ANS=9=, etc.

Table [18] showing MATH (SOLV) functions like sin x=0.5, Start=0, etc.

Table [21] showing DATA functions like 30, 40, 50, etc.

Table [21] showing DATA functions like 30, 40, 50, etc.

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Table [21] showing DATA functions like 30, 40, 50, etc.

Table of calculator functions and results for EL-520X (continued).

Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

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Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

Table [20] showing DATA functions like 95, 80, 80, etc.

\* n, r: integer / ganze Zahlen / entier / entero / inteiro / intero / geheel getal / egész számok / celé číslo / hehtal / kokonaisluku / целые / hehtal / จำนวนเต็ม / عدد صحيح / 整数 / integer / bilangan bulat

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Information sur la mise au rebut de cet Equipement et des Piles/Batteries SEPARADEMENTE de acuerdo con la Ley. Esto garantiza un tratamiento respetuoso del medio ambiente...

Información sobre el Desecho de este Aparato y sus Pilas. SI USTED DESEA DESECHAR ESTE APARATO O SUS PILAS, NO USE EL CONTENEDOR DE RESIDUOS HABITUAL...

For Canada only: For warranty information, please see http://www.sharp.ca/en-CA/ForHome/HomeOffice/Calculator.aspx

Physical Constants and Metric Conversions are shown in the tables. Fysikaliskens Konstanter och metriska Umrechnungen sind in der Tabelle aufgelistet.

PHYSICAL CONSTANTS (CNST) 01 — 52

Table of physical constants like 01 - c, c0, m s^-1, 19 - mu\_B, J T^-1, etc.

METRIC CONVERSIONS (CONV) 1 — 44

Table of metric conversions like No. UNIT, 1 in -> cm, 16 kg -> lb, etc.