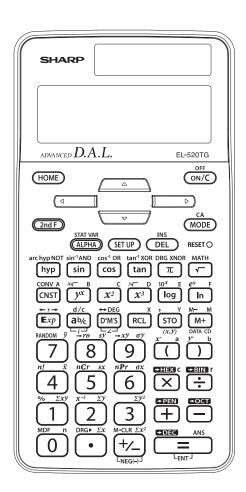
SCIENTIFIC CALCULATOR OPERATION GUIDE

< EL-520TG>



SHARP

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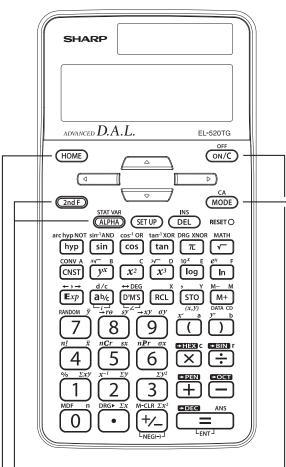
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How to Operate

≈Read Before Using≈

This operation guide has been written based on the EL-520TG model.

1. KEY LAYOUT



♦ 2nd function, ALPHA keys

Pressing these keys will enable the functions written in orange (2nd F) or green (ALPHA) above the calculator buttons.

ON/C, OFF key



2ndF OFF <Power off>
Written in orange above the ON/C key

◆HOME key

Pressing this key will return to NORMAL mode.

2ndF MATH Various functions

Mode key

This calculator can operate in three different modes as follows.

[NORMAL mode] •Mode = 0; normal mode for performing normal arithmetic and function calculations.

•Mode = 1; mode for performing 1- or 2-variable statistical calculations. To select the sub-mode, press the corresponding number key after [1].

(SD): Single variable statistic calculation

1 (LINE): Linear regression calculation

2 (QUAD): Quadratic regression calculation

3 (EXP): Exponential regression calculation

4 (LOG): Logarithmic regression calculation

5 (POWER): Power regression calculation

6 (INV): Inverse regression calculation

[CPLX mode] •Mode = 2; mode for complex number

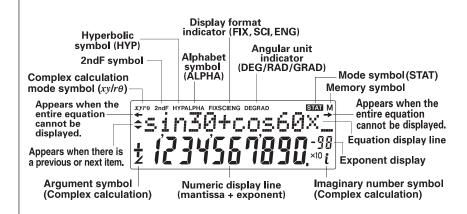
calculations.

2. RESET SWITCH

If the calculator fails to operate normally, press the reset switch on the front to reinitialise the unit. The display format and calculation mode will return to their initial settings.

NOTE: Pressing the reset switch will erase any data stored in memory. Reset switch OFF ON/C SAMON ATH THESETO OFF ON/C SAMON RESETO RESETO THESETO THES

3. DISPLAY PATTERN



The actual display does not appear like this. This illustration is for explanatory purposes only.

4. DISPLAY FORMAT AND DECIMAL SETTING FUNCTION

For convenient and easy operation, this model can be used in one of five display modes. The selected display status is shown in the upper part of the display (Display format indicator). Note: If more 0's (zeros) than needed are displayed when the ON/C key is pressed, check whether or not the calculator is set to a Special Display Format.

- Floating decimal point format 1/2 (no symbol is displayed) *1
 Valid values beyond the maximum range are displayed in the form of [10-digit (mantissa) + 2-digit (exponent)]
- Fixed decimal point format (FIX is displayed)
 Displays the fractional part of the calculation result according to the specified number of decimal places.
- Scientific notation (SCI is displayed)
 Frequently used in science to handle extremely small or large numbers.
- Engineering scientific notation (ENG is displayed)
 Convenient for converting between different units.
 - *1 The calculator has two settings for displaying a floating point number: NORM1 (default setting) and NORM2. In each display setting, a number is automatically displayed in scientific notation outside a preset range:

< Example> Let's compare the display result of $[10000 \div 8.1 =]$ in each display format.



10000 \div 8.1 = $10,000 \div 8.1 = 1234.56790 |$ (NORM1 mode)

SET UP







Display format indicator

1 0 0 0
$$0 \div 8$$
. 1 = 1.234.568 (FIX mode, TAB=3)

SET UP

$$10000 \stackrel{\text{sci}}{\div} 8.1 = \frac{1.235}{1.235} = \frac{1.235}{1.235}$$
(SCI mode)

SET UP

$$10000 \div \overset{\text{ENG}}{\div} \overset{\text{DEG}}{8}. 1 = \frac{1.235}{1.235}$$
(ENG mode)

SET UP



5. EXPONENT DISPLAY

The distance from the earth to the sun is approx. 150,000,000 (1.5 x 108) km. Values such as this with many zeros are often used in scientific calculations, but entering the zeros one by one is a great deal of work and it's easy to make mistakes. In such cases, the numerical values are divided into mantissa and exponent portions, displayed and calculated.

> **Example**> What is the number of electrons flowing in a conductor when the electrical charge across a given cross-section is 0.32 coulombs. (The charge on a single electron = 1.6×10^{-19} coulombs).

0.32

0.32÷

1.6

0.32÷

 $0.32 \div 1.\overset{\text{DEG}}{6} = 19 =$

6. ANGULAR UNIT

Angular values are converted from DEG to RAD to GRAD with each push of the DRG▶ key (2nd function of •). This function is used when doing calculations related to trigonometric functions or coordinate geometry conversions.

Degrees (DEG is shown at the top of the display)

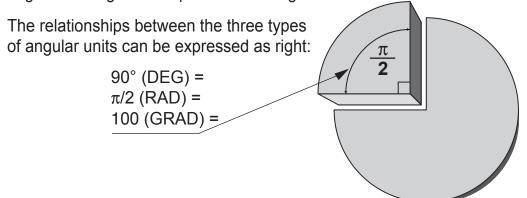
A commonly used unit of measure for angles. The angular measure of a circle is expressed as 360°.

Radians (RAD is shown at the top of the display)

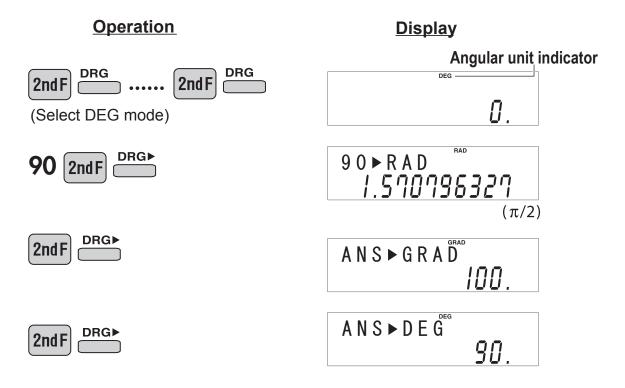
Radians are different from degrees and express angles based on the circumference of a circle. 180° is equivalent to π radians. Therefore, the angular measure of a circle is 2π radians.

Grads (GRAD is shown at the top of the display)

Grads are a unit of angular measure used in Europe, particularly in France. An angle of 90 degrees is equivalent to 100 grads.

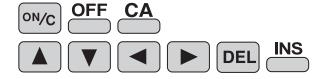


Example> Check to confirm 90 degrees equalling $\pi/2$ radians equalling 100 grads. (π =3.14159...)



≈Functions and Key Operations≈

ON/OFF, Entry Correction Keys





Turns the calculator on or clears the data. It also clears the contents of the calculator display and voids any calculator command; however, statistics, as well as values stored in the memory, are not erased.



Turns the calculator off.



Clears all internal values, including the last answer (ANS) and statistics. Values stored in M memory in normal mode are not erased.



These arrow keys are useful for Multi-Line playback, which lets you scroll through calculation steps one by one.

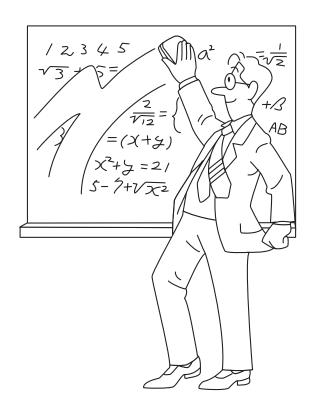


These keys are useful for editing equations. The key moves the cursor to the left, and the key moves the cursor to the right. The key deletes the symbol/number at the cursor.



DEL

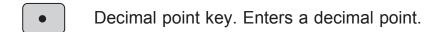
The key inserts the symbol/number at the cursor.



Data Entry Keys



0 to 9 Numeric keys for entering data values.



Enters the minus symbol or sign change key.

Changes positive numbers to negative and negative numbers to positive.

Enters π (3.14159...). The constant π , used frequently in function calculations, is the ratio of the circumference of a circle to its diameter

Pressing this key switches to scientific notation data entry.

Example> Provided the earth is moving around the sun in a circular orbit, how many kilometers will it travel in a year?

* The average distance between the earth and the sun being 1.496 x 108 km.

Circumference equals diameter x π ; therefore, 1.496 x 10 8 x 2 x π

Operation

Display

1 • 496 Exp 8



$$\times$$
 2 \times π =

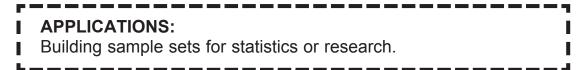
1.496 E 0°8×2×π → 939364522.

Random Key RANDOM

RANDOM

Generates random numbers.

Random numbers are three-decimal-place values between 0.000 and 0.999. Using this function enables the user to obtain unbiased sampling data derived from random values generated by the calculator.



To generate the next random integer, press ____.

Modify Key MDF

MDF

Function to round calculation results.

Even after setting the number of decimal places on the display, the calculator performs calculations using a larger number of decimal places than that which appears on the display.

By using this function, internal calculations will be performed using only the displayed value.

< Example > FIX mode TAB = 1 (normal calculation)

5 ÷ 9 = 0.6 (internally, 0.5555...)

× 9 = 5.0

Rounded calculation (MDF)

5 ÷ **9** = **0.6** (internally, 0.5555...)

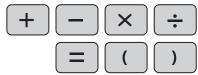
2ndF MDF (internally, 0.6)

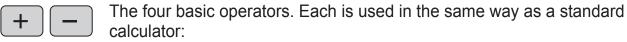
× 9 = 5.4

I APPLICATIONS:

Frequently used in scientific and technical fields, as well as business,when performing chained calculations.

Basic Arithmetic Keys, Parentheses





+ (addition), - (subtraction), x (multiplication), and ÷ (division).

Finds the result in the same way as a standard calculator.

Used to specify calculations in which certain operations have precedence. You can make addition and subtraction operations have precedence over multiplication and division by enclosing them in parentheses.



For calculating percentages. Four methods of calculating percentages are presented as follows.

1) \$125 increased by 10%...137.5

125 + 10 2ndF %

125+10%

2) \$125 reduced by 20%...100

125 - 20 2ndF %

1 2 5 – 2 0 % III.

3) 15% of \$125...18.75

125 × 15 2ndF %

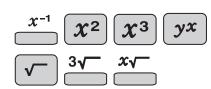
125×15% 18.75

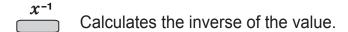
4) When \$125 equals 5% of X, X equals...2500

125 ÷ 5 2ndF %

1 2 5 ÷ 5 % 2'500.

Inverse, Square, Cube, xth Power of y, Square Root, Cube Root, xth Root





 x^2 Squares the value.

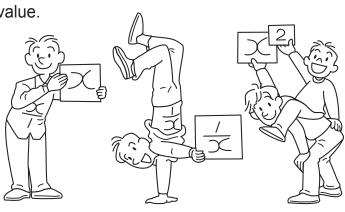
 x^3 Cubes the value.

yx Calculates exponential values.

Calculates the square root of the value.

Calculates the cube root of the value.

Calculates the *x*th root of the value.



<Example>

Operation

$$2 \times 2 \times 2 \times 2 = 15.$$

10 to the Power of x, Common Logarithm



 10^{x} Calculates the value of 10 raised to the x^{th} power.

Calculates the logarithm, the exponent of the power to which 10 must be raised to equal the given value.

<Example>

Operation

$$2ndF \stackrel{10^x}{\longrightarrow} 3 =$$

e to the Power of x, Natural Logarithm



ex Calculates powers based on the constant e (2.718281828).

Computes the value of the natural logarithm, the exponent of the power to which e must be raised to equal the given value.

<Example>

Operation

$$\boxed{2 \text{ndF} e^x} 5 =$$

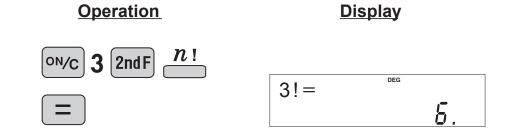
Factorials $\stackrel{n!}{=}$

The product of a given positive integer n multiplied by all the lesser positive integers from 1 to n-1 is indicated by n! and called the factorial of n.

Example 1>Operation 7 2ndF n! = 7! = 50040.C.f $n! = 1 \times 2 \times 3 \times ... \times n$

Example 2> How many arrangements exist of cards of three colors: red, blue, and yellow?

$$3! = 3 \times 2 \times 1 = 6$$



APPLICATIONS:

Used in statistics and mathematics. In statistics, this function is used in calculations involving combinations and permutations.

Permutations, Combinations Pr ncr



This function finds the number of different possible orderings in selecting r objects from a set of n objects. For example, there are six different ways of ordering the letters ABC in groups of three letters—ABC, ACB, BAC, BCA, CAB, and CBA.

The calculation equation is $_{3}P_{3} = 3 \times 2 \times 1 = 6$ (ways).



This function finds the number of ways of selecting r objects from a set of n objects. For example, from the three letters ABC, there are three ways we can extract groups of two different letters—AB, AC, and CB. The calculation equation is ${}_{3}C_{2}$.

<Example>

Operation

6
$$2ndF$$
 nPr 4 $=$

6
$$2ndF$$
 nCr 4 $=$

APPLICATIONS:

Used in statistics (probability calculations) and in simulation hypotheses
 in fields such as medicine, pharmaceutics, and physics. Also, can be used
 to determine the chances of winning in lotteries.

Time Calculation





Converts a sexagesimal value displayed in degrees, minutes, seconds to decimal notation. Also, converts a decimal value to sexagesimal notataion (degrees, minutes, seconds).

D°M'S

Inputs values in sexagesimal notation (degrees, minutes, seconds).

< Example > Convert 24° 28' 35" (24 degrees, 28 minutes, 35 seconds) to decimal notation. Then convert 24.476° to sexagesimal notation.

Operation

Display

24°28'35"

Convert to decimal notation

24°28°3°5°= 24.47638889

Repeat last key operation to return to the previous display.

APPLICATIONS:

Used in calculations of angles and angular velocity in physics, and latitude and longitude in geography.

Fractional Calculations





ab/c

Inputs fractions and converts mutually between fractions and decimals.

d/c

Converts between mixed numbers (fractions) and improper fractions.

Example> Add $3\frac{1}{2}$ and $\frac{5}{7}$, and convert to decimal notation.

Operation

3 ab/c

] a

2 (

7 =

Display

ab/c

Convert to decimal notation. Press once to return to the fraction.

2ndF d/c

3 - 1 - 2 + 5 - 7 = 59 - 14.

Convert to an improper fraction.

Press once to return to the mixed number (fraction).

2ndF d/c

3 - 1 - 2 + 5 - 7 = 4 - 3 - 14.

APPLICATIONS:

There is a wide variety of applications for this function because fractions are such a basic part of mathematics. This function is useful for calculations involving electrical circuit resistance.

Memory Calculations



Stores displayed values in memories A~F, X, Y, M.

RCL Recalls values stored in A~F, X, Y, M.

M+ Adds the displayed value to the value in the independent memory M.

Subtracts the displayed value from the value in the independent memory M.

A F X Y Temporary memories

Independent memory

<Example 1>

Operation

<u>Display</u>

O STO M (Enter 0 for M) O⇒M

☐,

25 × 27 M+

 $2.5 \times 2.7 \text{M} + \frac{1}{5.05}$

7 × 3 M+

7 × 3 M+



<Example 2>

Calculates \$/¥ at the designated exchange rate.

\$1 = ¥110 ¥26,510 = \$? \$2,750 = ¥?

Operation



Last Answer Memory ANS

ANS

Recalls the last answer calculated by pressing =

Example> Solve for x first and then solve for y using x.

$$x = \sqrt{2} + 3$$
 and $y = 4 \div x$

Operation

$$\sqrt{2+3} = \sqrt{112}$$

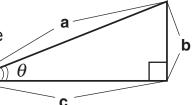
Trigonometric Functions





tan

Trigonometric functions determine the ratio of three sides of a right triangle. The combinations of the three sides are sin, cos, and tan. Their relations are:



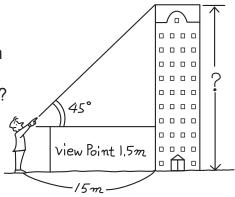
- sin
 - Calculates the sine of an angle.
- $\sin\theta = \frac{b}{a}$

- cos
- Calculates the cosine of an angle.
- $\cos\theta = \frac{c}{a}$

- tan
- Calculates the tangent of an angle. $\tan \theta = \frac{b}{c}$

<Example 1>

The angle from a point 15 meters from a building to the highest floor of the building is 45°. How tall is the building?



Operation

Display



<Angle setting "°" (DEG)>



View point

APPLICATIONS:

Trigonometric functions are useful in mathematics and various engineering calculations. They are often used in astronomical observations, civil engineering and in calculations involving electrical circuits, as well as in calculations for physics such as parabolic motion and wave motion.

Trigonometric Functions

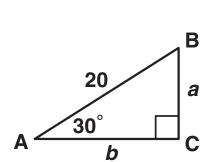
sin

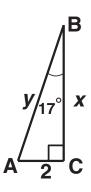


tan

<Example 2>

Find the length of the side of the following triangle.





$$a = 20 \sin 30$$

$$b = 20 \cos 30$$

$$x = \frac{2}{\tan 17}$$

$$y = \frac{2}{\sin 17}$$

Operation

Display

2ndF DRG 2ndF DRG

DEG

0.

<Angle setting "°" (DEG)>

Trigonometric Functions sin cos

tan

ON/C

20 sin 30 = $20 \sin 30 =$

20 cos 30 =

20cos30= 17.32050808

2 [ab/6] [tan] 17 [=

2-tan17[™] 6.54 /705237

sin | 17 | =

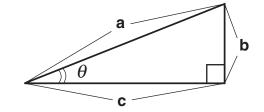
2-sin17= 6.84060724

Arc Trigonometric Functions = cos-1 tan-1



Arc trigonometric functions, the inverse of trigonometric functions, are used to determine an angle from ratios of a right triangle.

The combinations of the three sides are sin-1, cos⁻¹, and tan⁻¹.



Their relations are:

sin⁻¹

(arc sine) Determines an angle based on the ratio b/a of two sides of a right triangle.

$$\theta = \sin^{-1}\frac{b}{a}$$

cos⁻¹

(arc cosine) Determines an angle based on the ratio c/a for two sides of a right triangle.

$$\theta = \cos^{-1} \frac{c}{a}$$

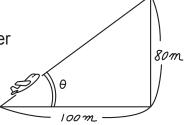
tan⁻¹

(arc tangent) Determines an angle based on the ratio *b/c* for two sides of a right triangle.

$$\theta = \tan^{-1} \frac{b}{c}$$

<Example>

At what angle should an airplane climb in order to climb 80 meters in 100 meters?



[DEG mode]

Operation



Display

tan-1(80÷100) 38.65980825

Hyperbolic Functions



hyp

The hyperbolic function is defined by using natural exponents in trigonometric functions.

arc hyp Arc hyperbolic functions are defined by using natural logarithms in trigonometric functions.

APPLICATIONS:

Hyperbolic and arc hyperbolic functions are very useful in electrical engineering and physics.

Coordinate Conversion $\stackrel{r_0}{=}$



<u>→r</u>θ

Converts rectangular coordinates to polar coordinates $(x, y \rightarrow r, \theta)$

→x3

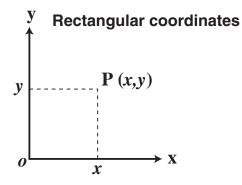
Converts polar coordinates to rectangular coordinates $(r, \theta \rightarrow x, y)$

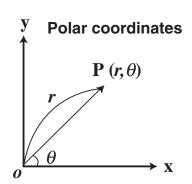
•

Splits data used for dual-variable data input.

←,→

Displays r, θ and x, y. ($x \rightleftharpoons y$ or $r \rightleftharpoons \theta$)





Example> Determine the polar coordinates (r, θ) when the rectangular coordinates of Point P are (x = 7, y = 3).

[DEG mode]

Operation

Display

7 2ndF $\stackrel{\bullet}{\longrightarrow}$ 3 2ndF $\stackrel{\bullet}{\longrightarrow}$ r_{Θ}

r= 7.8 15773 108

2nd F ← , →

θ= 23.19859051

7.6 2ndF 23.2

2ndF $\rightarrow xy$

×= 6.985428578

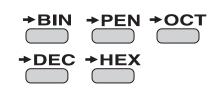
2ndF ← , →

y= 2.993958513

APPLICATIONS:

Coordinate conversion is often used in mathematics and engineering, especially for impedance calculations in electronics and electrical engineering.

Binary, Pental, Octal, Decimal, and Hexadecimal Operations (N-Base)



This calculator can perform conversions between numbers expressed in binary, pental, octal, decimal, and hexadecimal systems. It can also perform the four basic arithmetic operations, calculations with parentheses and memory calculations using binary, pental, octal, decimal, and hexadecimal numbers. In addition, the calculator can carry out the logical operations AND, OR, NOT, NEG, XOR, and XNOR on binary, pental, octal, and hexadecimal numbers.

*BIN Converts to the binary system.
"b" appears.

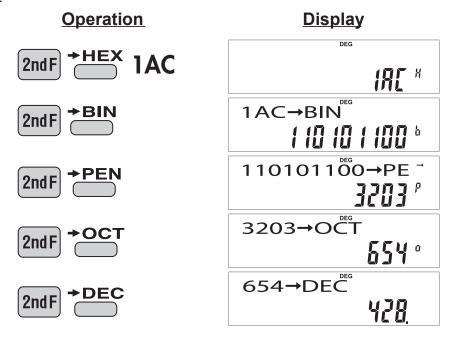
*PEN Converts to the pental system.
"P" appears.

*DEC Converts to the decimal system.
"b", "P", "o", and "H" disappear from the display.

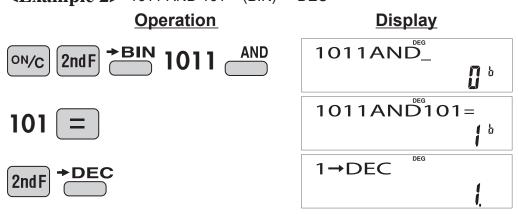
*OCT Converts to the octal system.
"o" appears.

Conversion is performed on the displayed value when these keys are pressed.

<Example 1> HEX(1AC) \rightarrow BIN \rightarrow PEN \rightarrow OCT \rightarrow DEC



<Example 2> 1011 AND 101 = (BIN) \rightarrow DEC



Statistics Functions

 $\boxed{\mathsf{MODE}} \ \ \overrightarrow{(x,y)} \ \ \ \mathsf{DATA} \ \ \ \ \ \mathsf{CD}$

The statistics function is excellent for analyzing qualities of an event. Though primarily used for engineering and mathematics, the function is also applied to nearly all other fields including economics and medicine.

(x,y)

Splits data for input.

DATA

Enters data for statistical calculations.

CD

Clears data input.

DATA INPUT FOR 1-VARIABLE STATISTICS

Example 1> Here is a table of examination results. Input this data for analysis.

Data table 1

No.	1	2	3	4	5	6	7	8
Score	30	40	50	60	70	80	90	100
No. of pupils	2	4	5	7	12	10	8	2

Operation

Display

MODE

1 0

Select single-variable statistics mode

Stat 0 STAN

30 $\bigcirc_{(x,y)}$ 2 \bigcirc_{DATA}

·) - DAT

$$\begin{array}{c|c}
100 & 2 & \\
\hline
Score & No. of pupils \\
(x) & (Frequency)
\end{array}$$

"ANS" KEYS FOR 1-VARIABLE STATISTICS

Calculates the average value of the data (sample data x).

Calculates the standard deviation for the data (sample data x).

Calculates the standard deviation of a data population (sample data x).

Displays the number of input data (sample data x).

Calculates the sum of the data (sample data x).

Calculates the sum of the data (sample data x) raised to the second power.

NOTE:

- 1. Sample data refers to data selected randomly from the population.
- 2. Standard deviation of samples is determined by the sample data shift from an average value.
- 3. Standard deviation for the population is standard deviation when the sample data is deemed a population (full data).

Let's check the results based on the previous data.

RCL \bar{x} 69 (average value)RCLSX17.75686128 (standard deviation)RCL σx 17.57839583 (standard deviation of the population)RCL \mathbf{n} 50 (total count of data)RCL Σx 3450 (total)

DATA CORRECTION

Correction prior to pressing The immediately after a data entry: Delete incorrect data with No., then enter the correct data.

Correction after pressing TATA:

- Use **_** v 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 'X:', 'Y:', or 'F:' (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.

- When ▲ or ▼appears, more data items can be browsed by pressing
 ▲ or ▼.
- 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 [and input the values, then press] and input the values, then press]

<Example 2>

Data table 2

Operation

MODE 1 0

Select single-variable statistics mode

40
$$(x,y)$$
 2 DATA

Display

Stat 0

Operation

Display







45 (x,y) 3 DATA

\$X2=	DEG	STAT
		45.





APPLICATIONS:

Single-variable statistical calculations are used in a broad range of fields, including engineering, business, and economics. They are most often applied to analysis in atmospheric observations and physics experiments, as well as for quality control in factories.

DATA INPUT FOR 2-VARIABLE STATISTICS

Example 3> The table below summarizes the dates in April when cherry blossoms bloom, and the average temperature for March in that same area. Determine basic statistical quantities for data X and data Y based on the data table.

Data table 3

	Year	2010	2011	2012	2013	2014	2015	2016	2017
X	Average temperature	6.2	7.0	6.8	8.7	7.9	6.5	6.1	8.2
У	Date blossoms bloom	13	9	11	5	7	12	15	7

Operation



Select dual-variable statistics mode and linear regression calculation in sub-mode.

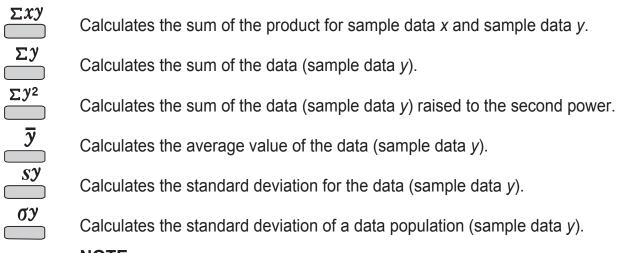
•

6.1
$$(x,y)$$
 15 DATA

8.2
$$(x,y)$$
 7 DATA

"ANS" KEYS FOR 2-VARIABLE STATISTICS

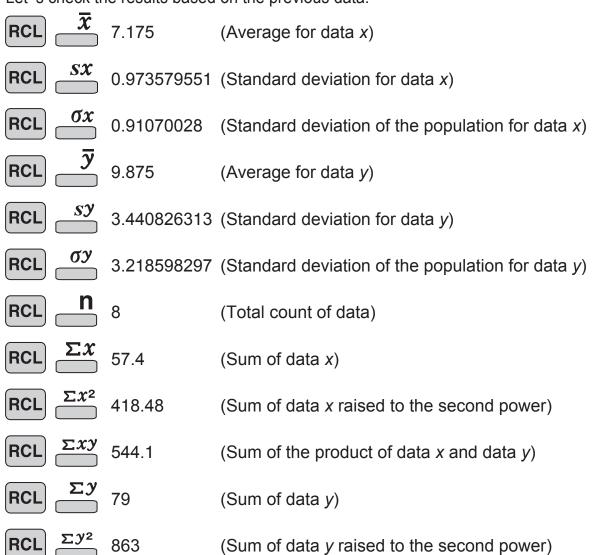
In addition to the 1-variable statistic keys, the following keys have been added for calculating 2-variable statistics.



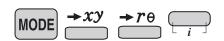
NOTE:

The codes for basic statistical quantities of sample data *x* and their meanings are the same as those for single-variable statistical calculations.

Let's check the results based on the previous data.



Complex Calculation



<Example>

An AC sine wave voltage of 100 V, 50 Hz is applied to a circuit consisting of a resistor ($R = 250\,\Omega$) and capacitor ($C = 20\,\mathrm{x}\,10^{-6}\mathrm{F}$) connected in parallel. Find the impedance of this circuit.

Circuit impedance = Value of polar coordinate r

Let R = 250, $C = 20 \times 10^{-6}$, and f = 50. If the complex number $Z = 1 \div ((1 \div R) + 2\pi fCi)$, find the value of the complex number Z and the values of r.

Operation

Display

MODE 2 (CPLX)

Complex mode

2ndF $\rightarrow xy$

(Rectangular coordinates)

DEG .

1 ÷ (

÷ 250) + 2

 π \times 50 \times 20

1÷((1÷250)+2 →

2nd F ← , → _

 $1 \div ((1 \div 250) + 2 \div (13.25450) + 2 \div (13.2550) + 2 \div (13.$

2nd F DRG

<Angle setting RAD>

 $1 \div ((1 \div 250) + 2 \div 1)$

2ndF $\rightarrow r\theta$ (Polar coordinates)

134.2500) +2 + 134.2503 18

2ndF ←,→

 $(1 \div ((1 \div 250) + 2 \div 2 \times 1.003004022)$

