Canon

ENGLISH

F-718S/F-718SGA/ F-718SG/F-718SA

Scientific Calculator

NOTES

F-718SGA and **F-718SG** the top case, bottom case, battery cover and hard case in this product are made from recycled Canon copier plastic.

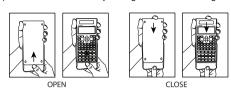


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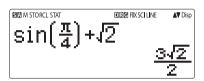
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How to use the Slide Cover Open or close the cover by sliding as shown in the figure.



DISPLAY (4-line Dot Matrix DISPLAY)



<Status Indicators>

S : Shift key A : Alpha key

M : Independent memory

STO : Store memory
RCL : Recall memory
STAT : Statistics mode
D : Degree Mode
R : Radian Mode

G : Gradient Mode FIX : Fixed-decimal setting.

SCI : Scientific Notation LINE : Line Display mode

■ : Up Arrow ■ : Down Arrow

Disp : Multi-statements Display

GETTING STARTED

Power ON, OFF

- First time operation:
- Pull out the battery insulation sheet, then the battery will be loaded.
- 2. Press ON Shift CLR 3 = CA to reset the calculator.

Power ON: When onis pressed.

Power OFF: Shift OFF are pressed.

Auto Power off Function: When the calculator is not used for about 7 minutes, it will automatically power off.

Display Contrast Adjustment

■ Press Shift SETUP (5 (5: (CONT ()), enter the Display Contrast Adjustment screen.



Press () to make the display contrast darken.

Press
 to make the display contrast lighten.

Press CA or ON to confirm and clear the screen.

■ To initialize the LCD contrast, press 5hift CLR 3 = CA outside the Display Contrast Adjustment screen.

Mode Selection

- Press Mode to enter the Calculation Mode Selection screen.
- Press 1, 2, 3 to select the calculation mode.

1:COMP 2:STAT 3:TABLE

Operation	Mode		LCD Indicator
MODE 1	COMP	Normal calculation	
MODE 2	STAT	Statistical calculation	STAT
MODE 3	TABLE	Function Table calculation	

Initial mode is COMP mode.

Calculator Set-up Menu

■ Press Shift SEFUP to enter the Calculator Set-up Menu; press 🏈 / 🔊 for next / previous page.





1:ab/c 2:d/c 3:STAT 4:Disp 5:∢CONT▶

■ To select the calculator input & output format [1] Maths or [2] Line

[1] Maths – (Maths mode): The majority of calculation input and output (e.g. Fraction, pi, square root number) are shown in Mathematics textbook format.

[2] Line – (Line mode): The majority of calculation input and output are shown in the lines format. And "LINE" icon will be shown. Maths mode



For the STAT mode, the Input & Display format will switch to Line mode automatically.

Line mode

1.224744871

- To select the angle unit [3] Deg, [4] Rad or [5] Gra
 - [3] Deg: Angle unit in Degree [4] Rad: Angle unit in Radian
 - [5] Gra: Angle unit in Gradient
 - $90^{\circ} = \frac{\pi}{2}$ radians = 100grads
- To select display digit or notation [6] Fix, [7] Sci or [8] Norm [6] Fix: Fixed Decimal, [Fix 0~9?] appears, specify the number of decimal places by pressing [0] [9].

Example: $220 \div 7 = 31.4286 \text{ (FIX 4)}$ = 31.43 (FIX 2)

- [7] Sci: Scientific Notation, [Sci $0\sim9$?] appears, specify the number of significant digits by pressing [0] [9]. Example: $220 \div 7 = 3.1429 \times 10^1$ (SCI 5) = 3.143×10^1 (SCI 4)
- [8] Norm: Exponential Notation, [Norm 1~2?] appears, specify the exponential notation format by pressing [1] or [2].

Norm 1: Exponential notation is automatically used for integer values with more than 10 digits and decimal values with more than TWO decimal points.

Norm 2: Exponential notation is automatically used for integer values with more than 10 digits and decimal values with more than NINE decimal places.

Example: $1 \div 1000 = 1 \times 10^{-3} \text{ (Norm 1)}$ = 0.001 (Norm 2)

To select the fraction format [1] a b/c or [2] d/c

■ [1] a b/c: specify Mixed fraction display [2] d/c: specify Improper fraction display

Data Input Screen [2] OFF: Hide FREQ (Frequency) Column in Statistical Data Input Screen	
■ To select the decimal point display format [4] Disp ([1] Dot of [2] Comma) [1] Dot: specify dot format for Decimal point result display [2] Comma: specify comma format for Decimal point result display	
■ To Adjust Display contrast [5] CO®T See "Display Contrast Adjustment" section.	
Before Using the Calculator	
■ Check the current Calculation Mode Be sure to check the status indicators that indicate the current calculation mode (COMP, STAT, TABLE), display formats setting and angle unit setting (Deg, Rad, Gra)	
Return to initial setup Pressing Shift CIR 1 SETUP (YES) CA to return the initial calculator setup Calculation mode : COMP Input/Output Format : Maths Angle unit : Deg Display Digits : Norm 1 Fraction Display Format : d/c Statistical Data Input : OFF Decimal Point format : Dot This action will not clear the variable memories.	
■ Initialize the calculator When you are not sure of the current calculator setting, you are recommended to initialize the calculator (calculation mode "COMP", angle unit "Degree", and clear reply and variable memories), and LCD contrast by pressing Shift CLR (A).	u

■ To select the statistical display format [3] STAT

[1] ON: Show FREQ (Frequency) Column in Statistical

([1] ON or [2] OFF)

INPUTTING EXPRESSIONS AND VALUES

Input Capacity

F-718S allows you to input a single calculation up to 99 bytes. Normally, one byte is used as each time you press one of the numeric keys, arithmetic keys, scientific function keys or Ans. Some functions require 4 – 13bytes.

Shift, Alpha, and the direction keys will not use up any bytes. When input capacity is less than 10bytes, the input cursor will change from " \[\]" to " \[\]" that notifying the memory is running now.

Input Editing

- New Input begins on the left of display. If input data are more than 15 characters, the line will scroll to the right consecutively. You can scroll back to the left by using

 and

 to review the input
- In Line mode, press o to let the cursor jump to the beginning of inputting, while o will jump to the end.
- In Maths mode, press to let the cursor jump to the beginning of inputting while it is at the end of the input calculation. Or press to let the cursor jump to the end of inputting while it is at the beginning of the input calculation.

■ Omit the multiplication sign and final close parenthesis.

Example: $2 \times \log 100 \times (1+3) = 16$

	Operation 1:	Display 1
Including X *1,	2 X log 1 0 0) X	2xlog(100) x (1+3)
*2,) *3	(1+3)= 1 1 1 1	16
	Operation 2:	Display 2
Omitting X *1,	2 10 0) (1	2log(100)(1+3
Omitting) *3	+3=	
		16

- *1. Omit multiplication sign (x)
 - Input before an open parentheses (: 1 x (2+3)
 - Input before scientific functions that includes parenthesis: 2 x cos(30)
 - Input before Random number function Rand
 - Input before Variable (A, B, C, D, X, Y, M), π, e
- *2. Scientific functions come with the open parenthesis. Example: sin(, cos(, Pol(, LCM(.... You need to input the argument and the close parenthesis).
- *3. Omit the last close parenthesis before the , M+, , , shift sro
- Insert and overwrite Input mode

In Line mode, you can use INSERT or overwrite mode for inputting.

- In Insert mode (Default input mode), the cursor is a vertical flashing line "I" for inserting a new character.
- In overwrite mode, press shift insert key to switch the cursor to a flashing horizontal (_) and replace the character at the current cursor position.

In Maths mode, you can only use the insert mode.

Whenever the display format changes from Line mode to Maths mode, it will automatically switch to the insert mode.

■ Deleting and Correcting an Expression
In insert mode: Move the cursor to the right of the character or function that needs to be deleted, then press [PEL].

In overwrite mode: Move the cursor under the character or function being deleted, then press [DEL].

Example: 1234567 + 889900

(1) Replace an entry (1234567 1234560)

Mode Setting	Key In operation	Display (input Line only)
Method 1:	1234567 + 889900	1234567I+889900
Line/Maths mode -	√ 7 times	
Insert mode	DEL 0	1234560I+889900
Method 2: Line mode -	Shift SET-UP 2	1234567+889900_
Overwrite mode	1234567 + 889900	
	Shift Insert	
	€ 8 times	123456 <u>7</u> +889900
	0	1234560 <u>±</u> 889900

(2) Deletion (1234567 134567)

Method 1: Line/Maths 12times		12l34567+889900
mode - Insert mode	DEL	134567+889900
Method 2: Line mode -	Shift Insert	1234567+889900_
Overwrite mode	€ 13times	1234567+889900
	DEL	134567+889900

(3) Insertion (889900 2889900)

Line/Maths mode -	€ 6times	1234567+l889900
Insert mode	2	1234567+21889900

Inputting and Display result in Maths Mode

In Maths Mode, the Input and display result of fraction or certain functions (log, x², x³, x , √ , √ , √ , √ , x¹, 10 , e¹, Abs) is shown in Handwriting/Mathematics format.

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation	Display
$\left \sqrt{3} - \frac{2}{3} \right $	Abs	$\sqrt{3} - \frac{2}{\sqrt{2}}$
$\left \begin{array}{c} \sqrt{3} - \sqrt{2} \end{array} \right $	2 d/c \(\sqrt{2} \) =	$\sqrt{3} - \sqrt{2}$

Remark

- Some input expressions cause the height of a calculation expression to be greater than one display screen. Maximum input capacity: 2 display screen (31 dots x 2).
- (2) Calculator memory limits how many functions or perentheses can be input in any single expression. In this case divide the expression into multiple parts and calculate separately.
- (3) If part of the expression you input is cut off after calculation and in the result display screen you can press (3) or (3) to view the full expression.

INPUT RANGE AND ERROR MESSAGE

Calculation Precision, Input Range

Number of Digits for Internal Calculation	Up to 18 digits
Precision*	±1 at the 10th digit for a single calculation. ±1 at the least significant for exponential display
Calculation Range	±1 × 10 ⁻⁹⁹ to ±9.999999999 × 10 ⁹⁹ or 0

■ Function Calculation Input Ranges

Functions		Input Range
	DEG	0 ≦ x <9×10 ⁹
sinx	RAD	0 ≦ lxl <157 079 632.7
	GRA	0 ≦ x <1x10 ¹⁰
	DEG	0 ≦ x <9×10 ⁹
cosx	RAD	0 ≦ lxl <157 079 632.7
	GRA	0≦ x <1x10 ¹⁰
	DEG	Same as sinx, except when lxl =(2n-1)×90
tanx	RAD	Same as sinx, except when lxl =(2n-1)× π/2
	GRA	Same as sinx, except when lxl =(2n-1)×100
sin ⁻¹ x	0 ≦ x ≤	1
cos ⁻¹ x	0 - 121 -	11
tan ⁻¹ x	0 ≦ lxl ≦	í 9.999 999 999x10 ⁹⁹
sinhx	0≦ x ≦ 230 258 509 2	
coshx		
sinh ⁻¹ x	0 ≦ x ≦ 4.999 999 999x10 ⁹⁹	
cosh-1x	1 ≤ x ≤ 4.999 999 999x10 ⁹⁹	
tanhx	0 ≦ lxl ≦	9.999 999 999x10 ⁹⁹
tanh ⁻¹ x	0 ≦ lxl ≦	9.999 999 999x10 ⁻¹
logx/lnx	0< x ≤ 9.999 999 999x10 ⁹⁹	
10 ^x	-9.999 999 999 x10 ⁹⁹ ≤ x ≤ 99.999 999 99	
e ^x	-9.999 999 999 x10 ⁹⁹ ≤ x ≤ 230.258 509 2	
√x	0 ≦ x <1	x10 ¹⁰⁰
X ²	IxI<1x10 ⁵⁰	
x ³		
x-1		
³√x		
x!	0 ≦ x ≦ 69 (x is an integer)	
nPr	0 ≦ n <	1x10 ¹⁰ , 0≦ r≦ n (n,r are integers)
	- '	(n-r)!) < 1x10 ¹⁰⁰
nCr		1x10 ¹⁰ , 0 ≤ r ≤ n (n,r are integers)
	1 ≦ n!/r!	$< 1x10^{100} \text{ or } 1 \le n!/(n-r)! < 1x10^{100}$

Functions	Input Range
Pol(x,y)	x , y ≤ 9.999 999 999x10 ⁹⁹
FUI(X,y)	$\sqrt{x^2+y^2} \le 9.999999999099910^{99}$
Rec(r,θ)	0 ≤ r ≤ 9.999 999 999x10 ⁹⁹
nec(i,e)	θ : Same as sinx
	lal,b,c <1x10 ¹⁰⁰
0, ,,	0 ≦ b,c
"	The display seconds value is subject to an error of
	+/-1 at the second decimal place
	x <1x10 ¹⁰⁰
∢ ∘ #	Deciaml ↔ Sexagesimal Conversions
	0°0′0″ ≦ x ≦ 9999999°59′59″
	x>0: -1x10 ¹⁰⁰ < ylog x < 100
^(x ^y)	x=0: y>0
(^/)	x<0: y=n,m/(2n+1) (m,n are integers)
	However: -1x10 ¹⁰⁰ <ylog x <100< td=""></ylog x <100<>
	y>0: x≠0, -1x10 ¹⁰⁰ <1/x logy<100
x _{\sqrt{\sq}\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sq}}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\eq}}}}}}}}} \end{\sqrt{\sqrt{\sq}}}}}}}} \end{\sqntitexentionend{\sq}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\eqs}}}}}}}	y=0:x>0
· '	y<0:x=2n+1,(2n+1)/m (m≠0;m,n are integers)
	However: -1x10 ¹⁰⁰ <(1/x)loglyl<100
a b/c	Total of integer, numerator, and denominator must be
a D/C	10 digits or less (including division marks).
i~Rand(a,b)	0 ≤ a<1x10 ¹⁰ , 0 ≤ b<1x10 ¹⁰ (a,b should be positive
i~hariu(a,b)	integers or 0)
Rand	Result generates a 3 digits pseudo random
nanu	number(0.000~0.999)
LCM(v.v.z)	0 <x, 9.999="" 999="" 999x10<sup="" y,="" z="" ≤="">12 (positive integers)</x,>
LCM(x,y,z)	Default result when x, y, z=0
GCD(x,y,z)	0 <x, 9.999="" 999="" 999x10<sup="" y,="" z="" ≤="">12 (positive integers)</x,>
GCD(x,y,z)	Default result when x, y, z=0
	0 <x,y 9.999="" 999="" 999x10<sup="" ≤="">12 (positive integers)</x,y>
0 *(***)	0 ≤ Q ≤ 999 999 9999, 0 ≤ r ≤ 999 999 9999 (Q,r are
Qr(x,y)	integers)
	Default result when x=0

Functions	Input Range
Abs	x <1x10 ¹⁰⁰
One-variable Statistical	x <1x10 ¹⁰⁰
calculation	IFREQI<1x10 ¹⁰⁰
Two-variable	x <1x10 ¹⁰⁰
Statistical	lyl<1x10 ¹⁰⁰
calculation	IFREQI<1x10100

- Errors are cumulative in the case of consecutive calculations, this is also true as internal consecutive calculation are performed in the case of ^(xy), x√y, 3√, x!, nPr, nCr, etc. And may become large.
- Display of results using

Calculation results may be displayed using $\sqrt{\ }$ when all of the following cases:-

1. When intermediate and final calculation results are displayed in the following form:

$$\pm \frac{a\sqrt{b}}{c} \pm \frac{d\sqrt{e}}{f}$$

$$0 \le a < 100, \quad 1 \le d < 100$$

$$0 \le b < 1000, \quad 1 < e < 1000$$

$$1 \le c < 100, \quad 1 \le f < 100$$

When the number of terms in the intermediate and final calculation result is one or two.

Order of Operations

This calculator will automatically determine the operation priority of each individual command as follows:-

1st Priority	Recall memory (A, B, C, D, 0-9), Rand	
2nd	Calculation within parentheses ().	
3rd	Function with parenthesis that request the input	
	argument to the right Pol(, Rec(, sin(, cos(, tan(,	
	sin-1(, cos-1(, tan-1(, sinh(, cosh(, tanh(, sinh-1(,	
	$cosh^{-1}(, tanh^{-1}(, log(, ln(, e^{(, 10^{(}, \sqrt{(, 3^{(}, Abs(, abs$	
	ROUND(, LCM(, GCD(, Qr(, i~Rand(,	
4th	Functions that come after the input value preceded by	
	values, powers, power roots:	
	x^2 , x^3 , x^{-1} , $x!$, $^\circ$	

5th	Fractions: a b/c, d/c
6th	Prefix symbol: (-) (negative sign)
7th	Statistical estimated value calculation: x, y, x1, x2
8th	Multiplication where sign is omitted: Multiplication sign
	omitted immediately before $\pi,$ e, variables (2 $\pi,$ 5A, π A,
	etc.), functions with parentheses (2√(3), Asin(30), etc.)
9th	Permutations, combinations: nPr, nCr
10th	Multiplication and division: ×, ÷
11th	Addition and subtraction: +, -
12th	Calculation ending instruction: =, M+,M- STO(store memory)

- In the same precedence level, calculations are performed from left to right.
- Operation enclosed within parentheses is performed first. When a calculation contains an argument that is a negative number, the negative number must be enclosed within parentheses.

Example:

(-) **2**
$$x^2$$
 = $-2^2 = -4$ ((-) **2**) x^2 = $(-2)^2 = 4$

When same priority commands are mixed into one calculation.

Example 1:

1
$$\div$$
 2 $\stackrel{\text{shift}}{=}$ π = 0.1591549431
Example 2:
2 $\stackrel{\text{shift}}{=}$ $\stackrel{\text{sto}}{=}$ (-)
1 \div 2 $\stackrel{\text{Alpha}}{=}$ $\stackrel{\text{A}}{=}$ = 1 \div 2A = $\frac{1}{4}$

Calculation Stacks

- This calculator uses memory areas, called "stacks", to temporarily store numeric value (numbers) and commands (+, -, x,...) according to their precedence during calculations.
- The numeric stack has 10 levels and command stack has 128 levels. A stack error [Stack ERROR] occurs whenever you try to perform a calculation that exceeds the capacity of stacks.
- Calculations are performed in sequence according to "Order of Operations". After the calculation is performed, the stored stack values will be released.

Error Messages and Error locator

The calculator is locked up while an error message is shown on the display to indicate the cause of the error.

- Press CA to clear the error message, then return to the initial display of latest mode.
- Press (or) to display input expression with the cursor positioned next to the error.
- Press ON to clear the error message, clear the replay memory history and return to the initial display of the latest mode.

Error Message	Cause	Action
Math ERROR	The intermediate or final result is outside the allowable calculation range. An attempt to perform a calculation using a value that exceeds the allowable input range. An attempt to perform an illogical operation (division by zero, etc.)	Check the input values and make sure they are all within the allowable ranges, Pay special attention to values in any using memory areas
Stack ERROR	The capacity of the numeric stack or operator stack is exceeded.	Simplify the calculation. Divide the calculation into two or more separate parts.
Syntax ERROR	An attempt to perform an illegal mathematical operation.	Press (or) to display the cursor at the location of the error, make appropriate corrections
Insufficient MEM	The calculation result of Function Table mode parameters caused more than 30 x-values to be generated for a table	Narrow the table calculation range by changing the start, end, and step values, and try again.

BASIC CALCULATIONS

- Press Mode 1 to enter COMP mode.
- During the busy calculation, the calculator shows only the indicators (without any calculation result). You can press A key to interrupt the calculating operation.

Arithmetic Calculations

- To calculate with negative values (exclude the negative exponent) enclose then with parentheses.
- This calculator supports 99 levels of parenthetical expression.

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation	Display	
(-2.5) ²	((-) 2 • 5) $x^2 =$	(-2.5) ²	<u>25</u> 4
(4 x 10 ⁷⁵)(-2 x 10 ⁻⁷⁹)	4 EXP 7 5 X (-) 2 EXP (-) 7 9 =	4 _E 75x-2 _E -79	<u>1</u> 1250

Memory Calculations

Memory Variables

- There are 17 memory variables (0 9, A D, M, X and Y), which store data, results, or dedicated values.
- Store values into memory by pressing shift sro + Memory variable.
- Recall memory values by pressing RCL + Memory variable.

Example: 23 + 7 - (30 store into A), calculate 2 sinA and clear memory A.

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation	Display
23 + 7 → A	2 3 + 7 Shift	23+7 → A
	STO A	30
2 x sin A = 1	2 sin Alpha A =	2sin(A
		1
Clear memory	O Shift STO A	0 → A
		0

Independent Memory

- Independent memory

 \(^{\text{M}}\) uses the same memory area as variable M. It is convenient for calculating cumulative total by just pressing

 \(^{\text{M+}}\) (add to memory) or

 \(^{\text{M-}}\) (subtract from memory)
- Memory contents are retained even when the calculator is powered off.
- Clear independent memory (M) by pressing 0 shift
- Clear all memory values by pressing in the case 2(MCL)

Answer Memory

- The input values or the most recent calculation result will be automatically stored into Answer memory whenever you press , shift , M+, shift , shift ... Answer memory can hold up to 18 digits.
- Recall and use the latest stored Answer memory by pressing Ans.
- Answer memory is not updated as an error operation had been performed.
- Answer memory contents can be maintained even if pressing CA, changing the calculation mode, or turning off the calculator.

Example in Maths mode	Key in operation	Display
123 + 456 → M+,	123+4	Ans ²
$Ans^2 = 335,241$	$5 6 M + x^2 =$	335241
789900 – Ans =	78990	789900-Ans
454,659	0 — Ans =	454659

Fraction Calculations

The calculator supports Fraction calculation and the conversions between Fraction, Decimal point, Mixed fraction and Improper fraction.

- Specify the fraction calculation result display format by either mixed fraction (a b/c) or improper fraction (d/c) in set-up menu.
- At the default setting, fractions are displayed as improper fractions (d/c).
- Mixed Fraction display result only available after set the (a b/c) in the setup menu.

	Improper Fraction (d/c)	Mixed Fraction (a b/c)
Maths Mode	11 3	3 2/3
Line Mode	11_l3	3_l2_l3

- Press F-D to switch a <u>calculation result between fraction and decimal format</u>.
- Press hit a calculation result between improper fraction and mixed fraction format.
- Result will be displayed in decimal format automatically whenever the total digit of a fractional value (integer + numerator + denominator + separator marks) exceeds 10.
- As a fraction calculation is mixed with decimal value, the result will be displayed by decimal format.

Fraction ← Decimal point conversion

Example in Maths mode	Key in operation	Display
$1\frac{1}{2} + \frac{5}{6} = \frac{7}{3}$ in Maths mode	1 Shift a bic 1 3 2 3 + 5 d/c 6 =	$1\frac{1}{2} + \frac{5}{6}$ $\frac{7}{3}$
7		
$\frac{7}{3} \leftrightarrow 2.3333333333$	F-D	$1\frac{1}{2} + \frac{5}{6}$
(Fraction ← Decimal)		2.333333333
2.333333333333333333333333333333333333	Shift a b/c • d/c	$1\frac{1}{2} + \frac{5}{6}$
(Decimal ↔ Mixed Fraction)		$2\frac{1}{3}$

Percentage Calculations

MATHS MODE : SHIFT SET-UP 1

Example in Maths mode	Key in operation	Display	
To calculate 25% of	820 X 2	820x25%	
820 (Maths mode)	5	205	
The percentage of	750÷1	750÷1250%	
750 against 1250	2 5 0 Shift %		
(Maths mode)		60	

Degree-Minutes-Seconds Calculations

Use degrees (hours), minutes and seconds key to perform a sexagesimal (base-60 notational system) calculation or convert the sexagesimal value into decimal value.

Degree-Minutes-seconds ← Decimal points

Example in Maths mode	Key in operation	Display
86°37'34.2" ÷ 0.7 = 123°45'6" (Maths mode)	8 6 · · · 3 7 · · · · 3 4 · 2 · · · · ÷ 0 · 7 =	86°37 ° 34.2 ° ÷ 0.7 123°45'6"
123°45'6" → 123.7516667 (Maths mode)	0111	86°37 ° 34.2 ° ÷ 0.7 123.7516667
2.3456 → 2°20'44.16" (Maths mode)	2 • 3 4 5 6 = • · · ·	2.3456 2°20'44.16"

Replay & Multi-statements

Replay Memory Function

- · Replay memory is only available in COMP mode.
- After the calculation is executed, the calculation input and result will be stored in the replay memory automatically.
- After obtaining the calculation result on the display, press () or () to edit the input expression of that result.
- If the ▷ Indicator is on the right side of a calculation result display, you need to press (A) and then (I) or (I) to scroll the calculation.
- · Replay memory is cleared when you press
 - 1. Initialize calculator setting by Shift CLR 3 = CA
 - Change from one calculation mode or display mode to other.
 - 3. Press ON key.
 - 4. Press to power off machine.

Multi-statements Function

- Use a colon it to put two or more calculation input together.
- The first executed statement will have "Disp" indicator; and the "Disp" icon will disappeared after the last statement is being executed.

Example in Maths mode	Key in operation	Displ	ay
1x12=12 2+25=27 using a multi-statement	1 X 1 2 Alpha : 2 + 2 5	1x12:2+25l	
in Maths mode		1x12	▲ Disp
			12
		2+25	•
			27
Replay the previous calculation history 1 x	⊗	1x12	•
12 = 12			12

FUNCTIONAL SCIENTIFIC CALCULATIONS

- Press MODE 1 to enter COMP mode.
- $\pi = 3.1415926535897932324$
- e = 2.7182818284590452324

Square, Root, Cube, Cube Root, Power, Power Root, Reciprocal and Pi

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation	Display	
$\left(\sqrt[3]{2^2+5^3}\right)^{-1}\times\pi$	(Shift $\sqrt[3]{2}$ x^2 + 5 x^3 \Rightarrow)	$\left(\sqrt[3]{2^2+5^3}\right)^{-1}\times\pi$	
= 0.6217559776		0.6217559776	
$\left(\sqrt[3]{2^6} + \sqrt[5]{243}\right)$	(Shift * 2 A 6 > > + Shift */ 5 > 2 4	$\left(\sqrt[3]{2^6} + \sqrt[5]{243}\right)$	
= 7	3 9 1 =	7	

$Logarithm, Natural\ logarithm, Antilogarithm\ and\ logab$

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation	Display	
e ⁻³ + 10 ^{1.2} + ln3 = 16.99733128	Shift er (-) 3	$e^{-3} + 10^{1.2} + \ln(3$ 16.99733128	
$\log_3 81 - \log 1 = 4$	logab 3	log ₃ (81) – log(1	

Angle Unit Conversion

The calculator angle unit setting is "Degree". Pressing shift setup menu to change the unit to "Radian" or "Gradient".:

1:Maths 2:Line 3:De9 4:Rad 5:Gra 6:Fix 7:Sci 8:Norm Press the corresponding number key 3, 4 or 5 for the angle unit you need. Then the display will show the **D**, **R**, **G** Indicator accordingly.

Convert an angle unit between "Degree", "Radian" and "Gradient" by pressing Shift DRGD

Then, pressing 1, 2, or 3 will convert the displayed value into the selected angle unit.

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation		Display
Convert 180 degree into radian and gradient	Shift SET-UP 4 1 8 O Shift DRG 1 =	180°	R π
$(180^{\circ} = \pi^{Rad} = 200^{Gad})$	Shift SET-UP 5 =	180°	200

Trigonometry Calculations

Before using the trigonometric functions (except hyperbolic calculations), select the appropriate angle unit (Deg/Rad/Gra) by pressing Shift SELUP.

Angle Unit Setting	Angle Value Input	Input Value Range for √ form result
Deg	Units of 15°	$ \pi < 9 \times 10^9$
Rad	Multiples of $\frac{1}{12}\pi$ radians	$ \pi < 20\pi$
Gra	Multiples of $\frac{50}{3}$ grads	\pi < 10000

■ $90^{\circ} = \frac{\pi}{2}$ Radians = 100 Gradients.

Example in Maths mode	Key in operation	Display
Degree Mode	Shift SET-UP 3	D
Sin 60 = $\frac{\sqrt{3}}{2}$	sin 6 0 =	$\sin(60)$ $\frac{\sqrt{3}}{2}$
$\frac{1}{\sin 45^{\circ}} = \text{Cosec } 45^{\circ} = \sqrt{2}$	sin 4 5) x-1	sin(45) ⁻¹
	=	√2

- Hyperbolic (sinh/ cosh/ tanh), Inverse Hyperbolic (sinh⁻¹/cosh⁻¹/tanh⁻¹) functions
- Pressing hyp enter sub-hyperbolic menu.

1:sinh 2:cosh 3:tanh 4:sinh-1 5:cosh-1 6:tanh-1

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation	Display
sinh2.5 - cosh 2.5	hyp 1 2 • 5	
= -0.08208499862) — hyp 2 2 • 5) =	sinh(2.5) - cosh(▷ -0.08208499862
Cosh ⁻¹ 45	hyp 5 4 5 =	cosh ⁻¹ (45
= 4.499686191		4.499686191

Permutation, Combination, Factorials and Random Number Generation

Permutation: $n \Pr = \frac{n!}{(n-r)!}$

Combination: $nCr = \frac{n!}{r!(n-r)!}$

Factorial: x! = x(x-1)(x-2)...(2)(1)

Example in Maths mode	Key in operation	Display	
10P3 = 720	1 0 Shift nPr 3	10P3	
			720
5C2 = 10	5 Shift ncr 2 =	5C2	
			10
5! = 120	5 Shift X! =	5!	
			120

MATHS MODE : Shift SEFUP 1				
Example in Maths mode	Key in operation	Display		
Generate a random number between 0.000 & 0.999	Shift Rand	Rand	139 1000	
Generate an integer from range of 1 to 100	Alpha i-Rand 1 Shift i	i~Rand(1,100	33	
*The value is only a	sample, results will differ ea	ach time.		
Least Common Multi	iple and Greatest Common	Divisor		
■ LCM: Calculate the least common multiple among (maximum) three positive integers. ■ GCD: Calculate the greatest common divisor among (maximum) three positive integers. MATHS MODE: Shift SETUP 1				
MATHS MODE:				
Example		Display		
	Shift SET-UP 1	Display LCM(15,27,39	1755	
Example LCM(15, 27, 39)	Key in operation LCM 1 5 Shift ' 2 7 Shift ' 3 9 =	' '	1755	
Example LCM(15, 27, 39) = 1755	Key in operation LCM 1 5 Shift ' 2 7 Shift ' 3 9 =	' '	1755	

Random Number Generation

Shift Rand : Generate a random number between 0.000 and

Alpha i Rand: Generate a random number between two specified positive integers. The entry is divided by "."

in Maths mode status.

0.999. And the display result will be fraction format

Ouotient and Remainder Calculations

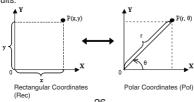
- "Quotient" (Q) is the result of a division problem, "Remainder" (r) is the value remaining in an integer division problem.
- The calculated quotient value (Q) and remainder (r) will be stored into memory variables "C" and "D" automatically assigned.
- In Maths mode, press o or o to scroll a long calculation result.
- In Line mode, the quotient value (Q) and remainder (r) will be shown over 2 line.
- Only Quotient Value (Q) can continue to be used for the next calculation or be stored into memory variables.

LINE MODE : Shift SET-UP 2

Example in Line mode	Key in operation	Display	
35 ÷ 10 = 3 x 10 +5 Q=3 R=5 (Line mode)	Qr 3 5 Shift 1 0 =		3
Quotient value (Q) + 3 = 6	+3=	Ans+3	6
Recall Quotient value (Q)	RCL C	С	3
Recall Remainder value (r)	RCL D	D .	5

Coordinate Conversion

- With polar coordinates, you can calculate and Display θ within −180° < θ ≤ 180° range. (Same as Radian and Gradient)</p>
- In Maths mode, press (or () to scroll the calculation result.
- In Line mode, (x,y) or (r,θ) will be shown over 2 line.
- After conversion, the results will automatically be assigned to memory variables X and Y. Press RCL X or Y to show the results.



Shift	Pol(:	Convert rectangular coordinates (x, y) to polar coordinates (r, θ) ; Press RCL $\overset{x}{\longrightarrow}$ for r , or RCL $\overset{y}{\longrightarrow}$ for θ .
-------	--------	---

Example in Maths mode	Key in operation	Display
With rectangular coordinate (x=1, y= √3). Find Polar coordinate (r, θ) at	Shift Pol(1 Shift	Pol(1, √3 r=2, □=60
degree mode	RCL X	X 2
	RCL Y	Y 60

Shift Rect : Convert polar coordinates (r, θ) to rectangular coordinates (x, y); Press RCL X for x, or RCL Y for y.

Example in Line mode	Key in operation	Display
With Polar coordinate (r=2, θ=60°). Find Rectangular coordinate (x, y) at	Shift Rec(2 Shift :	Rec(2, 60 X= 1 Y= 1.732050808
degree mode	RCL X	X 1
	RCL Y	Y 1.732050808

Absolute Value Calculation

Example in Maths mode	Key in operation	Display
$\left \sin(60-5)\times(-\pi)\right $	Abs sin 6 0 —	sin(60 - 5)×(-π)
=2.573442045	5) X ((-)	
	Shift π	2.573442045

Engineering Notation

Example in Line mode	Key in operation	Display
1÷200 = 5x10 ⁻³ (In Line Mode)	1÷200	1÷200 5 _{x10} -3
	ENG ENG	1÷200 5000x10 ⁻⁶
	Shift 4ENG	1÷200 5x10 ⁻³

Display Values Exchange

- In Maths mode, pressing F→D to change the calculation result value between fraction form → Decimal form, π form → Decimal form, π form → Decimal form → Torm → Decimal form → Torm → Decimal form → Torm → Torm
- In Line mode, pressing F→D to ONLY change the calculation result value between fraction form → Decimal form, the other π and √ calculation will display the decimal value only.

LINE MODE : Shift SET-UP 2

Example in Line mode	Key in operation	Display
$\frac{2}{3} + 2 = \frac{8}{3} = 2.666666667$	2 4/c 3 + 2	2_l3+2
(In Line Mode)		8_l3
	F-D	2_l3+2
		2.666666667

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation		Display
$\frac{2}{3} + 2 = \frac{8}{3} = 2.666666667$ (In Maths Mode)	2 d/c 3 > + 2 =	1/2+2	8 3
	F-D	2/3+2	2.666666667

MATHS MODE : Shift SET-UP 1

Example in Maths mode	Key in operation	Display
$\tan 30 = \frac{\sqrt{3}}{3}$	tan 3 0 =	$tan(30)$ $\frac{\sqrt{3}}{3}$
=0.5773502692		
	F-D	tan(30
		0.5773502692
$\pi \div 8 = \frac{1}{8}\pi$ =0.3926990817	Shift	$\pi \div 8$ $\frac{1}{8}\pi$
	F=D	$\pi \div 8$
		0.3926990817

RFMARK

- Some Calculation results, pressing F-D key will not convert the display value.
- Some display result conversion may take a long time.

STATISTICAL CALCULATIONS

- Press Mooi 2 to enter Statistical calculation mode and "STAT" indicator lights up.

Statistical Type Selection

There are 8 types of Statistical Calculation, after entered the Statistical Type Selection screen, then press the number to select the type of Statistic Calculation.

3:Quad 5:€ EXP	2:Lin 4:Log 6:ab EXP 8:Inv
-------------------	-------------------------------------

Pressing Key	Statistical Calculation
1 (SD)	One-variable statistics (x)
2 (Lin)	Two-variable, Linear regression (y= A+Bx)
3 (Quad)	Two-variable, Quadratic regression (y=A +Bx + Cx ²)
4 (Log)	Two-variable, Logarithmic regression (y=AxBlnx)
5 (e EXP)	Two-variable, E exponential regression (y=Ae ^{Bx})
6 (ab EXP)	Two-variable, ab Exponential regression (y=ABx)
7 (Pwr)	Two-variable, Power regression (y=Ax ^B)
8 (Inv)	Two-variable, Inverse regression (Y=A+B/x)

Statistical Data Input

After confirmed the calculation type of the above Statistical Type Selection screen or by pressing shift (1) at 1) in the STAT mode, the following Statistical Data Input screen will be shown.



1-variable STAT



2-variable STAT

- After turned on Data Frequency "FREQ" in calculator's setup menu, the FREQ column will be added into the above screen.
- · The followings are the maximum number of line for data input.

Statistic type	FREQ ON	FREQ OFF
Single Variable (only x input)	40	80
2 Variable (x & y input)	26	40

- Input expression and display result value in Statistical Data Input screen are in Line mode (same as Comp mode with Line mode status).
- After inputted the data, then press to store the value into statistical registers and display the value (max. 6 digits) in the cell. And ou can press cursor key to move the cursor between each cell

Editing Statistical Sample Data

- Replacing the Data in a cell
 - In Statistical Data Input screen, move the cursor to cell you want to edit.
 - (2) Input the new data value or expression, and then press
- Deleting a line
 - In Statistical Data Input screen, move the cursor to line you want to delete.
 - (2) Press DEL
- Inserting a line
 - In Statistical Data Input screen, move the cursor to the line that will be under the line being inserted.
 - (2) Press shift STAT 3 (Edit)
 - (3) Press 1 (Line)
- Deleting All STAT Data Input
 - (1) Press shift STAT 3 (Edit)
 - (2) Press 2 (Del-A)

Statistical Calculation Screen

- After inputting the STAT Data, press CA to enter Statistical Calculation screen.
- Statistical Calculation screen are in Line mode for input & output Display
- Use Statistical Menu to calculate the Statistical result. (S-SUM, S-VAR, S-PTS, Reg).

Statistical Menu

In Statistical Data Input screen or Statistical Calculation screen, you can press in to display the Statistical Menu screen.

1:Type 2:Data 3:Edit 4:S-SUM 5:S-VAR 6:S-PTS

1-variable STAT

1:Type 2:Data 3:Edit 4:S-SUM 5:S-VAR 6:S-PTS 7:Res

2-variable STAT

STAT items	Description
[1] Type	To enter the statistical calculation type screen
[2] Data	To enter the statistical Data input screen
[3] Edit	To enter Edit sub-menu for editing STAT editor screen contents
[4] S-SUM	To enter S-Sum sub-menu (calculating sum)
[5] S-VAR	To enter S-Var sub-menu (calculating variable)
[6] S-PTS	To enter S-PTS sub-menu (calculating points)
[7] Reg	To enter Reg sub-menu (Regression calculation)

Statistical calculation result in [4] S-SUM, [5] S-VAR, [6] S-PTS, [7] Reg

STAT sub-menu	STAT Type	Value	Symbol	Operation
S-SUM	1 & 2 variable	Summation of all x ² value	Σx²	Shift STAT 4 1
	STAT	Summation of all x value	Σx	Shift STAT 4 2
	2-variable	Summation of all y ² value	Σy ²	Shift STAT 43
	STAT only	Summation of all y value	Σу	Shift STAT 4 4
		Summation of xy pairs	Σxy	Shift STAT 4 5
		Summation of all x ³ value	Σx ³	Shift STAT 4 6
		Summation of all x ² y pairs	Σx ² y	Shift STAT 47
		Summation of all x ⁴ pairs	Σx ⁴	Shift STAT 4 8
S-VAR	1 & 2	Number of data sample	n	Shift STAT 5 1
	variable	Mean of the x values	₹	Shift STAT 5 2
	STAT	Population standard deviation of x	xσn	Shift STAT 5 3
		Sample Standard Deviation of x	xo _{n-1}	Shift STAT 5 4
	2-variable	Mean of the y values	ÿ	Shift STAT 5 5
	STAT only	Population standard deviation of y	$y\sigma_{n}$	Shift STAT 5 6
		Sample standard Deviation of y	yo _{n-1}	Shift STAT 5 7
S-PTS	1 & 2 variable	Minimum value of X	minX	Shift STAT 6 1
	STAT	Maximum value of X	maxX	Shift STAT 6 2
	2-variable	Minimum value of Y	minY	Shift STAT 6 3
	STAT only	Maximum value of Y	maxY	Shift STAT 6 4
Reg	For non-Quad	Regression coefficient A	Α	Shift STAT 7 1
	Reg	Regression coefficient B	В	Shift STAT 7 2
		Correlation coefficient r	r	Shift STAT 7 3
		Estimated value of x	â	Shift STAT 7 4
		Estimated value of y	ŷ	Shift STAT 7 5
Reg	For Quad	Regression coefficient A	Α	Shift STAT 7 1
	Reg only	Regression coefficient B	В	Shift STAT 7 2
		Regression coefficient C	С	Shift STAT 7 3
		Estimated value of x1	х̂1	Shift STAT 7 4
		Estimated value of x2	x 2	Shift STAT 7 5
		Estimated value of y	ŷ	Shift STAT 7 6

Statistical Calculation Example

SD type Statistical calculation Example:

To calculate $\sum x^2$, $\sum x$, n, x, $x_{\mathcal{O}_n}$, $x_{\mathcal{O}_{n-1}}$, minX, maxX of data: 75, 85, 90, 77, 79 in SD mode (Freq: OFF)

Key in operation	Display
MODE 2	1:SD 2:Lin 3:Quad 4:Log 5:@ EXP 6:ab EXP 7:Pwr 8:Inv
1 (SD)	E L
75=85=9 0=77=79 =	8 P P P P P P P P P P P P P P P P P P P
CA Shift STAT 4 1 =	Σx^2 33120
CA Shift STAT 4 2 =	Σx 406
CA Shift STAT 5 1 =	n 5
CA Shift STAT 5 2 =	x 81.2
CA Shift 5 3 =	$\mathbf{x}\sigma_{\mathrm{n}}$ 5.528109984
CA Shift 5 4 =	xσ _{n-1} 6.180614856

Quadratic Regression type Statistical Calculation Example: ABC Company investigate the effectiveness of the advertisement expense in coded units, the following data were obtained:

Advertisement expenses: X	18	35	40	21	19
Effectiveness: y (%)	38	54	59	40	38

Please use the regression to estimate the effectiveness (estimate the value of y) if the advertisement expenses X=30, and estimate the advertisement expenses level (estimate the value of X_{\star} , X_{\star}) for effectiveness y=50.

Vavin aparation	Display
Key in operation	Display
MODE 2	1:SD 2:Lin 3:Quad 4:Lo9 5:0 EXP 6:ab EXP 7:Pwr 8:Inv
3 (Quad)] Y
18=35=4 0=21=19 = \odolor \odolor 38=5 4=59=40 = 38=	X 21 Y 40
CA 3 0 Shift STAT 7 6	30ŷ 48.69615715
CA 5 0 Shift STAT 7 4	50x̂ ₁ 31.30538226
CA E O Shift STAT (7) E	
CA 5 0 Shift STAT 7 5	$50\hat{x}_2$
	-167.1096731

FUNCTION (x,y) TABLE CALCULATION

- Input f(x) function to generate the function table for x & f(x).
- Steps to generate a Number Table
 - 1. Enter TABLE Mode
 - Press MODE 3 to enter the Table function calculation.
 - 2. Function Input screen
 - Input function with X variable (Alpha X) to generate Function Table Result.
 - All other variables (A, B, C, D, Y) and independent memory (M) act as the value.
 - Pol, Rec, Q...r function not able to used in Function Input screen.
 - The Function Table Calculation will change X-variable.

- 3. Input the start, end & step information
 - Input the value, press to confirm on the following screens
 - Input expression and display result value in following screens are in Line mode status
 - There are maximum of 30 x-values for generate function table. The "Insufficient Error" will be showed if you input the start, end, step value combination is more than 30 x-values.

Display screen	You should input:-
Start?	Input the lower limit of X (Default =1).
End?	Input the upper limit of X (Default = 5). *End value must be greater than the start value.
Step?	Input the increment step (Default =1).

In Function Table Result screen, you cannot edit the content, and press reture Function Input screen.

Example: $f(x) = x^3 + 3x^2 - 2x$ to generate the function table for the range $1 \le x \le 5$, incremented in steps of 1.

Key in operation	Display
MODE 3	f(x)=
Alpha	$f(x) = X^3 + 3X^2 - 2X$
=1=5=1=	F(X) 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
\odot \odot \odot	## F (%) ### 199

BATTERY REPLACEMENT

When the display characters are dim or show the follow message on the screen, turn the calculator off and replace the lithium battery immediately.



Please replace the lithium battery using the following procedures,

- 1. Press to power off the calculator.
- Remove the screw that securely fixes the battery cover in place.
- 3. Remove battery cover.
- 4. Remove the old battery with ball pen or similar sharp object.
- 5. Load the new battery with positive "+" side facing up.
- 6. Replace the battery cover, screw, and press on, shift CR.

 3 = CA to initialize the calculator.

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used battery according to the instruction.

■ Electromagnetic interference or electrostatic discharge may cause the display to malfunction or the contents of the memory to be lost or altered. Should this occur, press on, shift car 3 = CA to restart the calculator.

ADVICE AND PRECAUTIONS

- This calculator contains precision components such as LSI chips and should not be used in place subject to rapid variations in temperature, excessive humidity dirt or dust, or exposed to direct sunlight.
- The liquid crystal display panel is made of glass and should not be subjected to excessive pressure.
- When cleaning the device do not use a damp cloth or volatile liquid such as paint thinner. Instead, use only a soft, dry cloth.
- Do not under any circumstances dismantle his device. If you believe that the calculator is not functioning properly, either bring or mail the device together with the guarantee to service representative of Canon Business office.
- Never dispose the calculator improperly such as burning; it can create risks of personal injury or harm.
 You are suggested to dispose this product according to your national law.
- Do replace the battery once very two years even it is not used frequently.

Battery Caution!

- Keep the Battery out of reach of children. If the battery is swallowed, contact a doctor immediately.
- Misuse of battery may cause leakage, explosion, damages or personal injury.
- Don't recharge or disassemble the battery, it could cause a short circuit.
- Never expose the battery to high temperatures, direct heat, or dispose by incineration.
- Never leave a dead battery in the calculator as the dead battery may leak and cause damage to the calculator.
- Continue using the calculator in the low battery condition may have improper operation or the stored memory may be corrupted or lost completely. Keep the written records of important data all the time; and replace the battery as soon as possible.

SPECIFICATIONS

Power Supply : Single Lithium battery (CR2032 x 1)

Power Consumption : DC 3.0V / 0.3mW
Battery Life : Approximately 3 years

(Base on 1 hour operation per day)

Auto power off : Approx. 7 minutes

Usable Temperature : 0° ~ 40°C (32°F ~ 104°F)

Size: 171 (L) × 86 (W) × 18.75 (H) mm (with cover) / 6-47/64" × 3-25/64" × 47/64" (with cover) / 168 (L) × 80 (W) × 14.5 (H) mm (without cover) /

6-19/64" × 3-5/32" × 37/64" (without cover)

Weight: 128 g (4.33 oz) (with cover) / 95.59 g (2.23 oz) (without cover)

*Specifications are subject to change without notice.

WEEE AND EU BATTERY DIRECTIVE 2006/66/EC

European Union (and EEA) only.

These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC), the Battery Directive (2006/66/EC) and/or your national laws implementing those Directives.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE.

Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit

www.canon-europe.com/environment.

(EEA: Norway, Iceland and Liechtenstein)



