ativa

| 2-lines display <br> Scientific Calculator |
| ---: |
| with advance <br> statistical functions |







 inte the calculatar
Remore the bieties if you do not plan to use the




##  





OIo
因 $\rightarrow-\cdots$
 78 (DEL ONAC $456 \times \div$ $142+-$


Overflow and Elrors
The calcultor is locked up while an error message is on

"Ma ERROR" caused by-

- Arnge. - Attempt to perform an illegal operation (division by zero,
$\underset{\substack{\text { action } \\ \text { action }}}{ }$


Axteode


Action
-Press ot display the calculation with the cursor 1 cocated at
the location of the error. Make neecessary corrections.

 two key operaritins, they actually comprise only one
function and therefore only one tep These stens can be

 Specifying the Format of Calculation Results
You can hange the precision of af ackultion resuls by
specifing the number of decimal places or the number of

 Norm 11 .-all values lid less than $10^{-2}$
automatically expressed as exponents.
Norm $2=$ all values less than $10-9$ or greater than $10^{\circ}$ are



## 

 specify. Intermediate results and final results seres then
automatically $\begin{aligned} & \text { rudded off } \\ & \text { places you thave specified }\end{aligned}$ to the number of decima places you have specified.
It to thould ben otet that isplayed results are rounded
to the specified number of decimal places, but stored



| Percen |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | This calculator conta |  | nemories. |
| Example | Operation | Display (Lower) |  | which are accessed | dels | varabie"me |
| ${ }^{\text {Percentage }}$ |  |  |  | The "independent" |  | s accessed by uir |
|  | 226 SH |  |  | the [M C ] , [shift] | [CL1 | a |
| ${ }_{\text {R }}^{\text {Ratio }}$ (75 is What\% of 250? |  | 30. |  | independent mema |  |  |
| Specifying the Format of Calculation Results You can change the precision of calcuation results by seating Shenumber of decim pipaces orthe number of <br>  |  |  |  | Contents of both th varable and independent $m$ menare protected even when the power is turned OFF. |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | Variable memories <br> Up to 9 values can be retained in memory at the sa time, and can be recalled when desired. |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| specifying the number of decimal places or the numbers by significant digits. You can also shift the decimal place of a displayed value three places to the left or right for one-touch conversions of metric weights and measures. |  |  |  | Example: Inp |  |  |
| Upon power up reset, the display format is defaulted at |  |  |  | [ON/AC1 123 |  |  |
| "Noorm1": Each time when you press "IMODEE [MODE] |  |  |  |  |  |  |
| by keyin in [1] o [ 21 ] respectively. |  |  |  | Isto |  |  |
| Norm 1 :-all values less than $10^{-2}$ or or greater than $10^{\circ}$ areautomaticall expressed as exponents. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Norm 2 :- all values less than $10^{-9}$ or greater than $10^{9}$ are |  |  |  |  |  |  |
| Note: You cannot specify the display format (Fix, Sci) while the calculator is in Base-N mode. |  |  |  |  |  |  |
|  |  |  |  | [RCLI] A$]$ |  |  |
| Specifing the Number of Decimal Places |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| The calculator always performs calculations using a |  |  |  | , |  |  |
| stored in memory as a 12 -digit mantisal and 2-digitexponent no matter how many decimal places you |  |  |  |  |  |  |
| exponent no metter how many decimal places you |  |  |  | [ON/AC] 123 [ $\times$ ] 4 |  | $23 \times 45$ |
| datomatically rounded off to the number of decimal |  |  |  |  |  |  |
|  |  |  |  | [STO] [B] |  |  |
| to the specified number of decimal places, but stored |  |  |  |  |  |  |
|  |  |  |  | [ON/ |  |  |
| ${ }^{\text {To }}$ [MODE] [MODE] [MODE] [1]" and then a value |  |  |  |  |  |  |
| indicating the number of decimal places $(0 \sim 9)$. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

 - Before fixed numbers, varial
example:
2r 2AB, 3 Ans, etc

- Before parentheses:-
example: $3(5+6)$, $(A)(B-1)$, etc.




Example: To calculate $1 \div 3 \times 3=$
$[A C][1][\div][3] \mid \times 1][3][=1 \times 1$
$1+3 \times 3 \quad 1$. [1][ $[\div[3]$ ]=]

| (continuing) [ $\times$ ] [3] $=1$ | ${ }_{\text {Ans } \times 3}$ |
| :---: | :---: |





| Example: To | 99 $\times 2$ to $369 \times$ |
| :---: | :---: |
| 369 $\times 1$ [ $\times 12$ | $369 \times \times 2$ |
| [4] [1] [DEL] | $369 \times 2$ |




| ${ }^{2}[1] 36\left[x^{2}\right]$ | $2.36^{2}$ |
| :---: | :---: |
| [4]4]4][4]4] | $\underline{2.36}{ }^{2}$ |
| [shliftilins] | $\square .36^{2}$ |
| [sin] | $\sin$ []. |

When [SHIFT] [INS] are pressed, the space that is opened
 NSI. or press I $=$ l.

Rsults it it possiblet to use this procecsuded to for colcurection

Arithmetic Operations \& Parenthesis calculations
Arithmetic operations are performed
 For mixed basic arithmetic operations, muttiplication and
division are given priority vere additition and subtraction


At this time you should be able to see "fix" on the display
The number of decimal places specified vill remain in

| Whenever you input the 73rd step of any calculation, the cursor changes from "-" to "U" to let you know memory isrunning low. If you still need to input more, you should divide you calculation into two or more parts. |  |
| :---: | :---: |
| When numeric values or calculation commands are input, they appear on the display from the left. Calculation results, however, are displayed from the right |  |
| The allowable input/output range (number of digits) ofthis unitits 10 digits for a mantissa and 2 digits for the the this unit is 10 digits for a mantissa and 2 digits for the with a range of 12 digits for a mantissa and 2 digits for an exponent. |  |
|  |  |
| 3[EXPI5-7]I-142857]=] | ${ }^{3 E 5+7-42857} 0.1428571$ |
| Correction <br> To make corrections in a formula that is being input, use the [ 4 ] and [ $>$ ] keys to move to the position of the error and press the correct keys. Example: To change an input of 122 to 123 :- |  |
|  |  |
|  |  |
|  |  |
| ${ }^{[1][2] ~[2] ~}$ | ${ }^{122}$ - |
| [4] | $2 \underline{2}$ |
| [3] |  |
| Example: To change an input of cos60 to sin60 : |  |
|  | cos 60 |
| [4][4][4] | cos 6 |
| [sin] |  |



| [0N/AC][MODE] |  | $\underset{\substack{\text { comp } \\ 1}}{ }$ | ${ }_{\text {Reg }}^{\text {Reg }}$ |
| :---: | :---: | :---: | :---: |
| [MODE] |  | ${ }_{\text {Deg }}{ }_{1}{ }^{\text {R }}$ | ${ }_{3}{ }_{3}{ }^{\text {ara }}$ |
| [MODE] |  | $\mathrm{Fix}_{1}{ }^{\text {S }}$ | ${ }_{\substack{\text { Norm }}}$ |
| [1] |  | Fix 0-9? |  |
| [4] (to specify 4 decimal places) |  |  | 0.0000 |
| Reset to "Norm" <br> [ON/AC] [MODE] |  |  |  |
| [MODE] |  |  |  |
| [MODE] |  |  |  |
| [3] |  | Norm 1-2? |  |
| [1] |  |  |  |
| Example | Operation |  | (isplay |
| $100 \div 6=16.66666666$ <br> specify 4 decimal place <br> cancel specification | 100 [-1] 6 [-] |  |  |
|  | (moeelmoen | Heosel | 16.6667 |
|  | $\left.\right\|_{\text {modill }} ^{\text {mid }}$ |  | 16.6666667 |
| $\begin{array}{\|l} \hline 200 \div 7 \times 14=400 \\ \hline \begin{array}{l} \text { rounded to } 3 \text { decimal } \\ \text { places } \end{array} \\ \hline \end{array}$ | $200[-7][\times]$ |  | 400. |
|  | MOOEIMOOEIII | [1008[1][3] | 400.000 |
|  |  |  | 28.57 |

a variale expression is entered, the expression is firt

[stolic]
[ON/AC]
C= $\quad 6898824$.
(RC)




You can compare the fina result obtained in the previous
example with the final resulto of the following example.

| Example | Operation | $\begin{aligned} & \text { Display } \\ & \text { (Lower) } \end{aligned}$ |
| :---: | :---: | :---: |
| 200 $\ddagger \times 14=400$ | 200 $1+17 \times 11414$ |  |
| rounded to 3 decimal places |  |  |
|  |  |  |
| round the stored intermediate result to decimal places |  |  |
|  | ${ }_{x}$ |  |
|  |  | - 399.954 |
| Cancel specificatio specifying "Norm | [W0oelwoolmoolikli] | 399.994 |

 digits $y$ ou have specified.
As with the number of decimal places, displayed result
are rounded to the specified number of digits, but storeded
results are normally not rounded.
 asked to enter a value indicating the number of significa sci 0~9?


Shifting the Decimal Place
You can use the key [ENG to shift the decimal point he displayed value three places to the left or ight. Each
3-place shitit to the left is the same a dividing the value multion, and by each shifitt to the tight is the same a
useful when converting metric weight this function is


Answer Function
This unit
Tha an answer function that stores the result of the most recent alculation. Once a numeric value or
numeric
rexpession is entered and $l=1$ is pressed, the To recall the stored value press the [Ans] $[=1$ key. When
[Anss is pressed, Ans wiil appear on the display, and the Example: $\begin{aligned} & 123+456=579 \\ & 789-579=210\end{aligned}$
[ON/AC|[1]|[|][3]|+|[4]|5||6||=] ${ }^{123+456} \quad 579$. [7]|8||91--]|Ans] $\quad{ }^{789-\text { Ans }}-{ }_{-579 .}$

Numeric values with 12 digits for a mantissa and 2 dis
"Ans" memory is not erased even if the power of the uni







 | Example: Squaring the result of $78+6=13$ |
| :--- |
| [ON/AC) $[7][8][+][6][=1$ |

$\qquad$
Replay Function
This functon stores formulas that have eben executed.
Atter execection is complete, pressing either the $[1]$ or

 cursor, the formula can be checred and numeric values


| $123 \times 456$ |
| :--- |
| 56088. |
| ${ }^{123 \times 456} 56088$. |




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|  |  | Sevis |



| Example | Operation | $\pm \begin{gathered}\text { Display } \\ \text {（Lower）}\end{gathered}$ |
| :---: | :---: | :---: |
|  | ${ }^{1090123812]}$ |  |
|  |  | \％osems |
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|  | Stilley | 900 |
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| 价 |  |  |
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| 隹 |  |  |
| $\xrightarrow{88}$ |  |  |
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| pple | Operation | $\underbrace{\substack{\text { Disper }}}_{\text {Dispay }}$ |
| :---: | :---: | :---: |
|  | Ioshflipeple |  |
|  |  |  |
| are possible？ |  |  |








 | 153 |
| :--- | :--- |
| 10 |

Statistical Calculations
This unit can bed to make statistical calculations
including standard deviation in the sDD mode，and including standard deviation in the＂Sal
regression calculation in the＂REG＂mode． Stand ard Deviation
Ithe＂ ＂OD Moderalculations including 2 types of
standard deviation formuas mean standard deviation formulas，mean，number of
of data，and sum of square can be performed．
Data input

 3．Input data，pressing
piece of data it is entered．
Example Data： $10,20,30$
Kevoperation： 1 （IT 120 ［DT］ 30 ［DT］
．When multiple of the same data arei


 By pressing［SHIFT］and then entering a semicolon
followed by value that represents the number of fitems the data is repeated（（6，in this case）and the（DTI key，the
multipe
automatically． Deleting input data
There are various ways to d Example 140 ［DTT］ 20 ［DT］ 30 ［DT］ 50 ［DT］
To delete 50 ，press
［SHIFT］［CL］．
［1］





Deleting input data
To dolete input data
Performing calculations
If $1 x$ is stored insted of of $x$ itelf，the inverse regression
formula $y=A+(B / x)$ becomes the linear regression


A number of inversereregression caregruatiotion results diffe
from those produced by linear regression．Note the

following | Lollowing： |
| :--- |
| Linear regr |
| $x$ |



| 7.272727272 |
| :---: |
| -12.2856646 |


| ample | Operation | Display |
| :---: | :---: | :---: |
| ${ }^{\text {i }}$ | 1 moon |  |
|  |  |  |
| 4 4 <br> 5  |  |  |
| ${ }_{6}{ }^{4} 6$ |  |  |
| Through invese |  |  |
| reatersion ofthe above data，the eregession | biligiot |  |
| formula and corereation |  | 7272727220 |
| entare of | Sticle |  |
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|  | 10 Shenlylu me |  |
| xie 10 and $i$ i $=$ |  | ${ }_{-6.533575}$ |









 procedures described
Delectin input atate
To delete input datata fo

Performing calculations
The following procectures
The e
linar regnescsion cacealuluses are used to perform the various The regression formula is $y=A+B x+C x^{2}$ where $A, B, C$
 To read the value of $\left[x^{3}, \sum^{4}\right.$ or $\left[x^{2} y\right.$ you can recall
memory $\operatorname{RCCLIM} M$ ，and $X$ respectively．

\begin{tabular}{|c|c|c|}
\hline Example \& Operation \& Displ <br>
\hline ${ }^{\text {chi }}$ \& ${ }_{\text {cosem }}^{10}$ \& <br>
\hline $50 \quad 23.5$ \&  \& <br>
\hline 74

103 \& \& <br>
\hline  \& \& <br>
\hline ugh \& \& <br>
\hline leater \& \& <br>
\hline \& \& 985693 <br>
\hline ciemtare \&  \& <br>
\hline \& ｜shriflele \& <br>
\hline detive estimated \& \& <br>
\hline 6and $y=20$ ． \& 20 ［SHAIIT \& <br>
\hline
\end{tabular}

[^0]
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Email search by domain
http://emailbydomain.com
Auto manuals search
http://auto.somanuals.com
TV manuals search
http://tv.somanuals.com


[^0]:    Replacing the Battery
    Dim figures on the display of the calculator indicate that battery power is iow．Continued use of the calculator
    when the batteres is low can resut in in inpoper operation
    Repace the bater as son
    figures become dim．
    T．Replace the battery：－
    －Remove the screws that
    on
    －Rhen remove the back cove
     Loadit into the unit with the eosititvelt（l）sidery，facing cuth．
    －Replece the battery cover and secure it in place with the
    screws． screws．
    －Press $[$ OO／AC］to turn power on．
    Auto Power off
    Calculator power automatically turns off if you do not
    perform any operation for about six minutes．When this
    
    Power supply：AG13x 2 batereies
    Operating temperature： $0^{0^{*}} \sim 40^{\circ}\left(32^{\circ} \mathrm{F} \sim 104^{\circ} \mathrm{F}\right)$

