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tion (\rightarrow DMS).
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f an entry.
accordingly,
- table for definitions, or
- Press **[DATA]** to return to the blank **STAT** screen. You can do calculations with data variables (\bar{x} , \bar{y} , etc.). Select a variable from the **[STATVAR]** menu and then press **[ENTER]** to evaluate the calculation.
7. When finished:
- Press **[2nd]** **[STAT]** and select **CLRDATA** to clear all data points without exiting **STAT** mode, or
 - Press **[2nd]** **[EXIT STAT]** **[ENTER]** to clear all data points, variable and **FRQ** values, and to exit **STAT** mode (**STAT** indicator turns off).

Variables	Definition
n	Number of x or (x,y) data points.
\bar{x} or \bar{y}	Mean of all x or y values.
Sx or Sy	Sample standard deviation of x or y .
σx or σy	Population standard deviation of x or y .
Σx or Σy	Sum of all x or y values.
Σx^2 or Σy^2	Sum of all x^2 or y^2 values.
Σxy	Sum of $(x \cdot y)$ for all xy pairs.
a	Linear regression slope.
b	Linear regression y -intercept.
r	Correlation coefficient.
x' (2-VAR)	Uses a and b to calculate predicted x value when you input a y value.
y' (2-VAR)	Uses a and b to calculate predicted y value when you input an x value.

Probability [PRB]

nPr	Calculates the number of possible permutations of n items taken r at a time, given n and r . The order of objects is important, as in a race.
nCr	Calculates the number of possible combinations of n items taken r at a time, given n and r . The order of objects is not important, as in a hand of cards.
!	A factorial is the product of the positive integers from 1 to n . n must be a positive whole number ≤ 69 .
RAND	Generates a random real number between 0 and 1. To control a sequence of random numbers, store an integer (seed value) ≥ 0 to rand . The seed value changes randomly every time a random number is generated.
RANDI	Generates a random integer between 2 integers, A and B , where $A \leq \text{RANDI} \leq B$. Separate the 2 integers with a comma.

Errors

ARGUMENT — A function does not have the correct number of arguments.

DIVIDE BY 0 —

- You attempted to divide by 0.
- In statistics, $n=1$.

DOMAIN — You specified an argument to a function outside the valid range. For example:

- For $x\sqrt{\quad}$: $x = 0$ or $y < 0$ and x not an odd integer.
- For yx : y and $x = 0$; $y < 0$ and x not an integer.
- For \sqrt{x} : $x < 0$.
- For **LOG** or **LN**: $x \leq 0$.
- For **TAN**: $x = 90^\circ, -90^\circ, 270^\circ, -270^\circ, 450^\circ$, etc.
- For **SIN-1** or **COS-1**: $|x| > 1$.
- For **nCr** or **nPr**: n or r are not integers ≥ 0 .
- For **xl**: x is not an integer between 0 and 69.

EQUATION LENGTH ERROR — An entry exceeds the digit limits (88 for Entry Line and 47 for Stat or Constant Entry lines); for example, combining an entry with a constant that exceeds the limit.

FRQ DOMAIN — **FRQ** value (in 1-VAR stats) < 0 or > 99 , or not an integer.

OVERFLOW — $| \theta | \geq 1E10$, where θ is an angle in a trig, hyperbolic, or **R \rightarrow P \rightarrow r** function.

STAT —

- Pressing **[STATVAR]** with no defined data points.
- When not in **STAT** mode, pressing **[DATA]**, **[STATVAR]**, or **[2nd]** **[EXIT STAT]**.

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