

COLLEGIATE Quick Reference Card

1-Variable Statistics

- Enter STAT1 mode. **MODE** **STAT1**
- Clear registers. **2ND** **[CSR]**
- Enter data. Example: 2 **[X]** + 4 **[FREQ]** 2
Data set is 2, 4, 4, 7. **[Σ+]** 7 **[Σ+]**
- View results:

Press	Display
[X]	4.25
[σxn]	1.785357107
[Varx]	4.25
[n]	4.

To delete a data value, enter the number as **|** was entered and then press **[X-]**. To include extra data, enter each new value as in step 3.

Note: Exiting STAT1 mode deletes the data set.

2-Variable Statistics

- Enter STAT2 mode. **MODE** **STAT2**
- Clear registers. **2ND** **[CSR]**
- Enter data. Example: 2 **[a]** 3 **[b]** **[Σ+]**
Data set is (2,3), (4,5), (4,5), (7,8). **[a]** 5 **[b]** **[FREQ]** 2
[Σ+] 7 **[a]** 8 **[b]** **[Σ+]**
- View results:

Press	Display
[X]	4.25
[σxn]	1.785357107
[Varx]	4.25
[Corr]	1.
[n]	4.
- For regression line: **trial x** **[x]** (predicted x shown)
trial x **[y]** (predicted y shown)

To delete a data point, enter the (x,y) values as they were entered and then press **[X-]**. To include extra data, enter each new data point as in step 3.

Note: Exiting STAT2 mode deletes the data set.

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Memory

Specify **m** as memory 0, 1, 2, 3, or 4.

- | | |
|--|--|
| [STO] m | Store in memory. |
| [RCL] m | Recall from memory. |
| [EXC] m | Exchange with memory. |
| [STO] [+] m | Store (memory + display). |
| [STO] [-] m | Store (memory - display). |
| [STO] [x] m | Store (memory × display). |
| [STO] [÷] m | Store (memory ÷ display). |
| [STO] [y²] m | Store (memory display). |
| [STO] [2ND] [√y] m | Store (display $\sqrt{\text{memory}}$). |

Number Base Conversions

- Press **[MODE]** followed by the key for the starting number base: **[Dec]**, **[Bin]**, **[Oct]**, or **[Hex]**.
- Enter the number.
- Press **[MODE]** followed by the key for the ending number base.

Note: In BIN, OCT, or HEX modes, you can use **+**, **-**, **x**, **÷**, **AND**, **OR**, **XOR**, **XNOR**, **NOT**, or **Neg** in a calculation.

Probability

n = Number of items in the set.

r = Number of items in the subset.

- Permutations* **Subset order is important.**
n **[a]** **r** **[b]** **[nP]**
- Combinations* **Subset order is unimportant.**
n **[a]** **r** **[b]** **[nC]**
- z Score **Express measurement as number of standard deviations.**
[I] **measurement** **[-]** **mean** **[I]**
[-] **standard deviation** **[=]**
- Normal Curve **z** **[P]** **[I]** (Area to left of z)
z **[Q]** **[I]** (Area to right of z)
z **[R]** **[I]** (Area between mean and z)

*These are not applicable in BIN, OCT, or HEX modes.

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Function/Comments	Example	Press	Display
Fractions *	Calculate $2\frac{3}{8} - \frac{3}{4}$.	2 $\frac{a}{b}$ 3 $\frac{a}{b}$ 8 - 3 $\frac{a}{b}$ 4 $\frac{a}{b}$	2.375 1.575
	Convert to improper fraction.	$\frac{2ND}{2ND}$ [d/c]	13.75
	Convert to decimal number. Return to fraction.	$\frac{2ND}{2ND}$ [Fr \rightarrow D] $\frac{2ND}{2ND}$ [Fr \leftarrow D]	1.625 1.575
Universal Powers and Roots **	Calculate $2^{1.1} - 5^{-2}$.	2 \sqrt{y} 1.1 $\frac{a}{b}$ 5 \sqrt{y} 2 [+/-] $\frac{a}{b}$	2.103546925
	Calculate $2^5\sqrt[5]{16} + \sqrt[3]{-8}$.	16 $\frac{2ND}{.6}$ [$\sqrt[y]{x}$] 2.5 [+] 3 [+/-] $\frac{a}{b}$	4.217064235
Delta Percent **	Find the percent change for a new value of 115 when the old value is 100.	115 $\frac{2ND}{}$ [%] 100 $\frac{a}{b}$	15.
Conversions *	Convert 10 Km to miles.	10 $\frac{a}{b}$ [mi-km]	6.213711922
	Convert 77 °F to °K.	77 $\frac{a}{b}$ [°F-°C] $\frac{a}{b}$ [°C-°K]	25. 298.
Trigonometry* (Select DEG, RAD, or GRAD by pressing $\frac{DRG}{DRG}$. To convert angles, press $\frac{2ND}{2ND}$ [DRG \rightarrow 1].)	Calculate $\sin 30^\circ$.	30 $\frac{a}{b}$ [SIN]	0.5
	Calculate $\cos^{-1}.5$ as an angle in degrees.	.5 $\frac{2ND}{}$ [COS-1]	60.
	Convert (8, -6) to polar form in degrees.	8 $\frac{a}{b}$ 6 [+/-] $\frac{a}{b}$ $\frac{2ND}{}$ [R \rightarrow P] $\frac{a}{b}$	(r) 10. (θ) -36.86989765
Convert (9, 83°) to rectangular form.	9 $\frac{a}{b}$ 83 $\frac{a}{b}$ [P \rightarrow R] $\frac{a}{b}$	(x) 1.096824091 (y) 8.932915365	
Complex Arithmetic (In CPLX mode, you can use +, -, x, or / to operate on complex numbers.)	Calculate $3+5i \times 4+6i + 1+2i$.	$\frac{MODE}{}$ [CPLX] 3 $\frac{a}{b}$ 5 $\frac{a}{b}$ $\frac{a}{b}$ x 4 $\frac{a}{b}$ 6 $\frac{a}{b}$ + 1 $\frac{a}{b}$ 2 $\frac{a}{b}$ = $\frac{a}{b}$	(real part) -17. (imaginary part) 40.

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