

Basic Operations

TI-30Xa (battery)

- **[ON/C]** turns on the TI-30Xa.
- **[OFF]** turns off the TI-30Xa and clears display, settings, and pending operations, but not memory.
- APD™ (Automatic Power Down™) turns off the TI-30Xa automatically if no key is pressed for about 5 minutes, but does not clear display, settings, pending operations, or memory.

Note: **[ON/C]** after APD retrieves display, pending operations, settings, and memory.

2nd Functions

2nd functions are printed above the keys. **[2nd]** selects the 2nd function of the next key pressed. For example, **2 [2nd] [x³]** calculates the cube of 2.

Basic Arithmetic

[+] [-] [×] [÷]	60 [+] 5 [×] 12 [=]	120.
[=]	Completes all pending operations. With constant (κ), repeats the operation and value.	
[+/-]	Changes sign of value just entered.	
	1 [+] 8 [+/-] [+] 12 [=]	5.
[()]	Parenthetical expression (up to 15 open). [=] closes all open parentheses.	
[π]	Pi is calculated with 12 digits (3.14159265359), displayed with 10 digits (3.141592654).	
	2 [×] [π] [=]	6.283185307

Powers and Roots

[1/x]	8 [1/x] [+] 4 [1/x] [=]	0.375
[x²]	6 [x²] [+] 2 [=]	38.
[√x]	256 [√x] [+] 4 [√x] [=]	18.
[2nd] [x³]	2 [2nd] [x³] [+] 2 [=]	10.
[2nd] [³√x]	8 [2nd] [³√x] [+] 4 [=]	6.
[yˣ]	5 [yˣ] 3 [=]	125.
[2nd] [x√y]	8 [2nd] [x√y] 3 [=]	2.

Fractions

b $\boxed{a \over b \over c}$ c Enters a proper or improper fraction, **b/c** (**b** ≤ 6 digits, **c** ≤ 3 digits). When possible, improper fractions are displayed as mixed numbers.

3 $\boxed{a \over b \over c}$ 4 **3** $\boxed{a \over b \over c}$ 4
 \times 3 $\boxed{a \over b \over c}$ **2** $\boxed{a \over b \over c}$ 4

Single-variable functions display decimal results.

1 $\boxed{a \over b \over c}$ 2 $\boxed{x^2}$ **0.25**

a $\boxed{a \over b \over c}$ b $\boxed{a \over b \over c}$ c Enters the mixed fraction **a b/c**. (**a**, **b**, **c** ≤ 3 digits each, with the total digits ≤ 8).

6 $\boxed{a \over b \over c}$ 4 $\boxed{a \over b \over c}$ 6 **6** $\boxed{a \over b \over c}$ 4 $\boxed{a \over b \over c}$ 6
 $\boxed{a \over b \over c}$ **6** $\boxed{a \over b \over c}$ 2 $\boxed{a \over b \over c}$ 3

$\boxed{2nd}$ $\boxed{d/c}$ Toggles display between a mixed number and an improper fraction.

30 $\boxed{a \over b \over c}$ 4 **30** $\boxed{a \over b \over c}$ 4
 $\boxed{2nd}$ $\boxed{d/c}$ **7** $\boxed{a \over b \over c}$ 1 $\boxed{a \over b \over c}$ 2
 $\boxed{2nd}$ $\boxed{d/c}$ **15** $\boxed{a \over b \over c}$ 2
 $\boxed{2nd}$ $\boxed{d/c}$ **7** $\boxed{a \over b \over c}$ 1 $\boxed{a \over b \over c}$ 2

$\boxed{2nd}$ $\boxed{F \leftrightarrow D}$ Toggles display between fraction and decimal.

55 $\boxed{a \over b \over c}$ 24 **55** $\boxed{a \over b \over c}$ 24
 $\boxed{2nd}$ $\boxed{F \leftrightarrow D}$ **2.291666667**
 $\boxed{2nd}$ $\boxed{F \leftrightarrow D}$ **2** $\boxed{a \over b \over c}$ 7 $\boxed{a \over b \over c}$ 24

Memory

The calculator has 3 memories. When a memory contains a number other than 0, **M1**, **M2**, or **M3** displays. To clear a single memory, press 0 \boxed{STO} 1, 0 \boxed{STO} 2, or 0 \boxed{STO} 3. To clear all 3 memories (solar only), press $\boxed{ON/AC}$.

\boxed{STO} *n* Stores displayed value in memory *n*, replacing current value.

23 \boxed{STO} 1 **M1** **23.**
 $\boxed{+}$ 2 $\boxed{a \over b \over c}$ **M1** **25.**

\boxed{RCL} *n* Recalls value in memory *n*.

(continued)
 \boxed{RCL} 1 **M1** **23.**
 $\boxed{+}$ 3 $\boxed{a \over b \over c}$ **M1** **26.**

$\boxed{2nd}$ \boxed{SUM} *n* Adds displayed value to memory *n*.

(continued)
 4 $\boxed{2nd}$ \boxed{SUM} 1 **M1** **4.**
 \boxed{RCL} 1 **M1** **27.**

$\boxed{2nd}$ \boxed{EXC} *n* Exchanges displayed and memory values.

(continued)
 3 $\boxed{\times}$ 5 $\boxed{a \over b \over c}$ **M1** **15.**
 $\boxed{2nd}$ \boxed{EXC} 1 **M1** **27.**
 $\boxed{2nd}$ \boxed{EXC} 1 **M1** **15.**

Notation

[2nd] [SCI]	Selects scientific notation.		
	12345 [=]		12345.
[2nd] [SCI]		SCI	1.2345⁰⁴
[2nd] [ENG]	Selects engineering notation (exponent is a multiple of 3). (continued)		
[2nd] [ENG]		ENG	12.345⁰³
[EE]	Enters exponent.		

To enter a number in scientific notation:

1. Enter up to 10 digits for base (mantissa). If negative, press **[+/-]** after entering the mantissa.
2. Press **[EE]**.
3. Enter 1 or 2 digit exponent. If negative, press **[+/-]** either before or after entering exponent.

1.2345 **[+/-]** **[EE]** **[+/-]** 65 **-1.2345 -65**

DMS

Enter DMS (Degrees/Minutes/Seconds) values as **D.MMSSs**, using 0s as necessary:

D	degrees (0–7 digits)
.	decimal-point separator
MM	minutes (must be 2 digits)
SS	seconds (must be 2 digits)
s	fractional part of a second

For example, enter 48°5'3.5" as **48.05035**.

Note: Before using a DMS value in a calculation, you must convert it to decimal with **[2nd] [DMS→DD]**.

[2nd] [DMS→DD]	Interprets display as DMS and converts it to decimal.	
	30.09090 [2nd] [DMS→DD]	30.1525
[2nd] [DD→DMS]	Temporarily displays current value as DMS.	
	30.1525 [2nd] [DD→DMS]	30°09'09"0