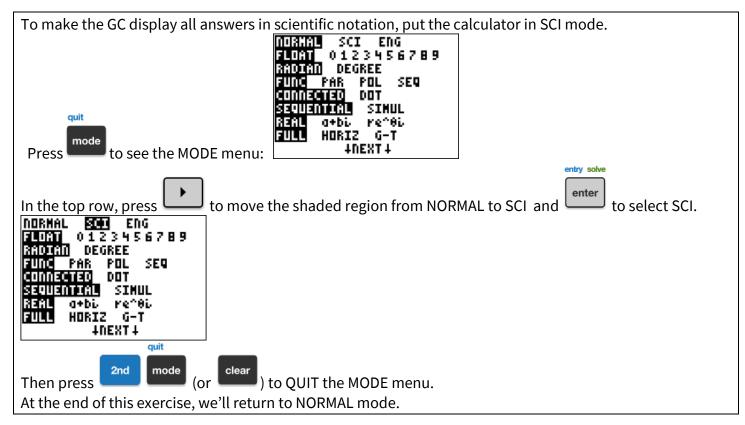
Using Scientific Notation Mode for all Results classic View

Objectives

- Change the calculator to scientific mode
- Input calculations in either standard notation or scientific notation
- Change the calculator back to normal mode

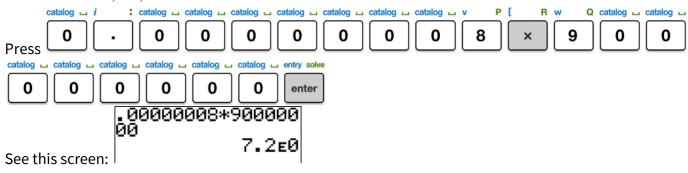
Change the calculator to scientific mode

CAUTION: This is sometimes very useful and sometimes it is not useful at all!



Input calculations in either standard notation or scientific notation

Example 1: Type in using standard notation, then write answer in standard notation. $0.00000008 \times 90.000.000$



The answer is automatically in scientific notation, but it's rather silly.

Recall that $7.2 \times 10^0 = 7.2 \times 1 = 7.2$

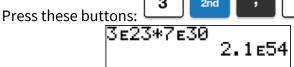
Answer: 7.2

Example 2: Type scientific notation into the calculator, then write answer in scientific notation.

$$(3\times10^{23})(7\times10^{30})$$

Recall: 2nd is **EE** near the button, but **E** in the screen, and means $\times 10$ to the next digit typed.

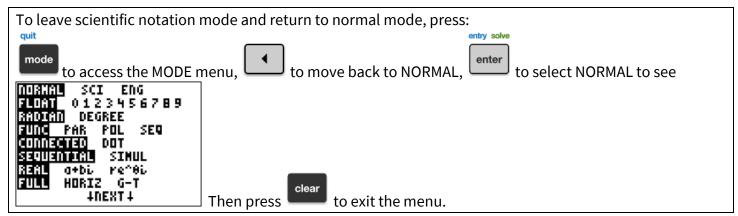




See this screen:

Answer: 2.1×10⁵⁴

Change the calculator back to normal mode



Try It!

Use the GC in scientific notation mode to perform the calculation. Write answers in scientific notation.

- 1) $0.025 \div 0.5$
- $3) \quad \frac{6,000,000,000,000}{0.0000002}$
- 4) $\frac{0.000000008}{0.002}$

5) $\frac{7,000,000,000}{5,000,000}$

Answers

2)
$$\frac{\left(8 \times 10^{-14}\right)}{\left(4 \times 10^{13}\right)} = 2 \times 10^{-27}$$

3)
$$\frac{\left(6 \times 10^{12}\right)}{\left(2 \times 10^{-12}\right)} = 3 \times 10^{24}$$

4)
$$\frac{(8 \times 10^{-9})}{(2 \times 10^{-3})} = 4 \times 10^{-6}$$

$$5) \quad \frac{7 \times 10^9}{5 \times 10^7} = 1.4 \times 10^2$$