Using Scientific Notation Mode for all Results MathPrint 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 $7.2 \times 10^{\circ} = 7.2 \times 1 = 7.2$

Answer: 7.2

Example 2: Type scientific notation into the calculator, then write answer in scientific notation. $(3 \times 10^{23})(7 \times 10^{30})$

Recall:

2nd

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



Answer: 2.1×10^{54}

Note: This would have been really irritating to type in standard notation! 300,000,000,000,000,000,000 × 7,000,000,000,000,000,000,000,000

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)	6,000,000,000,000	5)	7,000,000,000
, 2)	0.0000000000008	3)	0.0000002	5)	5,000,000
Z)	40,000,000,000,000	1)	0.00000008		
		4)	0.002		

Answers

1)

SCI FLOAT	AUTO REAL RADIAN MP	1
.025/.9	5	
		5E-2

Answer: 5×10^{-2}

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

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

4) $\frac{(8 \times 10^{-9})}{(2 \times 10^{-3})} = 4 \times 10^{-6}$
5) $\frac{7 \times 10^9}{5 \times 10^7} = 1.4 \times 10^2$