

**01-03**

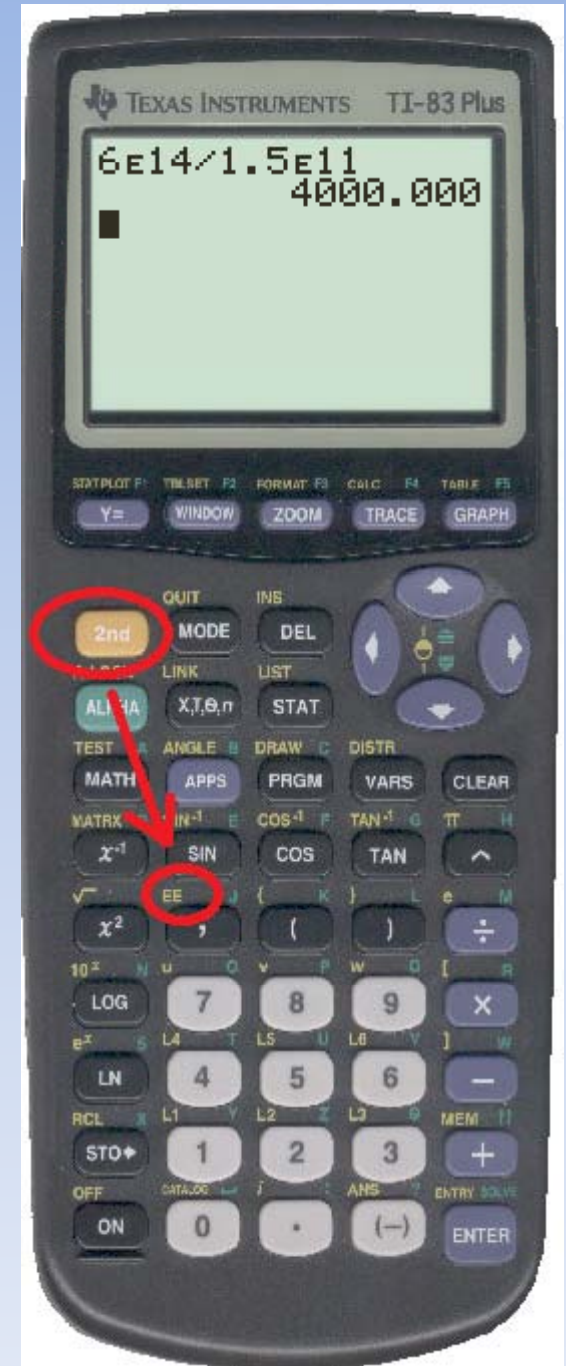
Linear Motion – Using your calculator  
EE button & Journal double-check

# Using the EE button

- Do the following math problem:
- $6 \times 10^{14} \div 1.5 \times 10^{11}$
- If you got  $4 \times 10^{25}$ , or if you got 4,000 (correct answer), but used a lot of parentheses, pay attention, there's an easier/better way!

# Using the EE button

- EE button translates as “times 10 to the”
- Let’s try the same problem as before, but the suggested way:
- $6 \times 10^{14} \div 1.5 \times 10^{11}$
- See the red areas? See how you would call those: “times 10 to the”, just do a EE button, every time you have a “times 10 to the”, literally:
- 6,EE,14, ÷, 1.5 EE,11,Enter



# Ready for a clicker question?

- You will have one minute, make sure you're calculator is turned on.....here goes!

# Clicker question

- Do the following math operation including dimensional analysis to come up with proper units, using this formula:
  - $a_y = (x_1 + x_2)/(t_1+t_2)^2$
  - $t_1 = 3.0 \times 10^4 \text{ sec}$ ;  $t_2 = 7.0 \times 10^3 \text{ sec}$ ;
  - $x_1 = 6.4 \times 10^5 \text{ m}$ ;  $x_2 = 0.36 \times 10^6 \text{ m}$ ;
  - Including units, what is the value for  $a_y$ ?
- a)  $7.3 \times 10^{-4} \text{ m/s}$
  - b)  $27 \text{ m/s}$
  - c)  $183 \text{ m/s}$
  - d) The correct number is here, but the units are wrong
  - e) No correct number here and units are wrong too

# For your Quiz!

- Have prefixes memorized
- Know how to use your calculator
- Know how to do HW questions you have