Different ways to write same value:

- 300 million meters/s
- 300000000 m/s
- “3 with 8 zeros after it” m/s
- $3 \times 10^8$ m/s
- $3 \times 10^8$ m/s
- 3e8 or 3d8 (programming languages)
- 3 EE 8 (into calculator)
** To multiply numbers in scientific notation, multiply the coefficients (first #) and add the exponents
eg: $4 \times 10^5 \times 3 \times 10^3 = 12 \times 10^8 = 1.2 \times 10^9$

** To divide numbers in scientific notation, divide the bases (#) and subtract the exponents
eg: $3 \times 10^6 / 1 \times 10^{-7} = 3 \times 10^{(6-(-7))} = 3 \times 10^{13}$

** To add or subtract numbers in scientific notation: no easy way except to ignore one of the numbers entirely (if you can):
eg: $10^9 + 10^2 \approx 10^9$
Careful: $10^5$ is not $10 \times 10^5$! Punch into calculator as 1 EE 5 or 10 EE 5!