











































Base SI Units

| Physical Quantity | Name of Unit | Abbreviation |
|---------------------|--------------|----------------|
| Mass | Kilogram | kg |
| Length | Meter | m |
| Time | Second | s ^a |
| Electric current | Ampere | Α |
| Temperature | Kelvin | K |
| Luminous intensity | Candela | cd |
| Amount of substance | Mole | mol |

| TABLE 1.5 Selected Prefixes Used in the Metric System | | | | |
|---|----------------|---------------|---|--|
| Prefix | Abbreviation | Meaning | Example | |
| Giga- | G | 109 | 1 gigameter (Gm) = 1×10^9 m | |
| Mega- | М | 106 | 1 megameter (Mm) = 1×10^6 m | |
| Kilo- | k | 103 | 1 kilometer (km) = 1×10^3 m | |
| Deci- | d | 10^{-1} | 1 decimeter (dm) = 0.1 m | |
| Centi- | с | 10^{-2} | 1 centimeter (cm) = 0.01 m | |
| Milli- | m | 10^{-3} | 1 millimeter (mm) = 0.001 m | |
| Micro- | m ^a | 10^{-6} | 1 micrometer (m m) = 1×10^{-6} m | |
| Nano- | n | 10^{-9} | 1 nanometer (nm) = 1×10^{-9} m | |
| Pico- | р | 10^{-12} | 1 picometer (pm) = 1×10^{-12} | |
| m | (7) | | | |
| Femto- | f | 10^{-15} | 1 femtometer (fm) = 1×10^{-15} | |
| m | | 17170. 7.1.M. | Construction (1977) - 1 (1978) | |













Rounding and Zeros

Rounding

- If <5, round down
- If >5, round up
- If =5, round to nearest EVEN number

Only round at the END of a calculation!

<u>Zeros</u>

All zeros are significant **EXCEPT** those that **only** locate a decimal point

Not certain? Use Scientific Notation

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