

Prefixes Used with SI Units (+1)

Name _____

Prefix	Symbol	Scientific Notation	Example
femto	f	10^{-15}	Femtosecond (fs)
pico	p	10^{-12}	Picometer (pm)
nano	n	10^{-9}	Nanometer (nm)
micro	μ	10^{-6}	Microgram (μg)
milli	m	10^{-3}	Milligram (mg)
centi	c	10^{-2}	Centimeter (cm)
deci	d	10^{-1}	Deciliter (dl)
kilo	k	10^3	Kilometer (km)
mega	M	10^6	Megagram (Mg)
giga	G	10^9	Gigameter (Gm)
tera	T	10^{12}	Terameter (Tm)

Unit Conversions

1. A typical bacterium has a mass of about 2.0 fg. Express this measurement in terms of grams and kilograms.
2. A human hair is approximately 50 μm in diameter. Express this diameter in meters.
3. The distance between the sun and the Earth is about 1.5×10^{11} m. Express this distance in kilometers.
4. A typical radio wave has a period of 1 μs . Express this period in seconds.
5. A hydrogen atom has a diameter of about 10 nm. Express this diameter in millimeters and in micrometers.