

Part D: The Metric System

The metric system is a way of representing numbers based upon powers of ten. This makes it very easy to go between metric and scientific notation.

Prefix	Symbol	Means
peta	P	10^{15}
tera	T	10^{12}
giga	G	10^9
mega	M	10^6
kilo	k	10^3
hecto	h	10^2
deca	da	10^1
deci	d	10^{-1}
centi	c	10^{-2}
milli	m	10^{-3}
micro	μ	10^{-6}
nano	n	10^{-9}
pico	p	10^{-12}
femto	f	10^{-15}

Convert each metric number to meters scientific notation:

- A) 5.0 kilometers
- B) 4.0 femtometers
- C) 2.0 terameters

Convert each scientific notation number to metric:

- D) 8.0×10^{-9} meters
- E) 4.3×10^{-6} meters
- F) 5.6×10^6 meters