

1. Convert the following values INTO scientific notation using the normalized value (decimal place is to the right of the first non-zero digit).

- 5,600,000,000
- 4,900
- 35
- 1,200,000,000,000,000,000
- 0.005
- 0.000,000,008,6
- 0.623

Prefix	Abbreviation	Value
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}

2. Convert the following into standard number format (remove the scientific notation).

- 4.5×10^8
- 17.65×10^{14}
- 2.6×10^{-10}
- 428.5×10^{-6}
- 0.005×10^9
- 114.5×10^{14}
- $37,774.5 \times 10^{-13}$

3. Complete the table with the missing information for each line (all base units are meters, m).

Standard Number	Scientific Notation	Number with Prefix on units
45 000 m	4.5×10^3 m	45 km
	3.2×10^{-6} m	
		5 Gm
0.000,000,007,8 m		
	450×10^{-12} m	
		75 fm
120.45		

4. Multiply the following together WITHOUT using a calculator, leave your answers in Scientific Notation.

- $(5,000,000,000) \times (2,000)$
- $(0.000,000,4) \times (0.000,003)$