

Toothbrush Numbers

Seven Fundamental Units		
Mass	kilogram	kg
Length	meter	m
Time	second	s
Temperature	Kelvin	K
Amount of substance	mole	mol
Luminous Intensity	candela	cd
Electrical current	Ampere	A

Common Root Words Used in SI System		
mass	gram	g
length	meter	m
volume	liter or Liter	l or L
time	second	s

SI Prefixes and Conversion Factors		
Prefix	Meaning	Example of Conversion Factor
pico	10^{-12}	$1 \text{ pm} = 10^{-12} \text{ m}$
nano	10^{-9}	$1 \text{ nm} = 10^{-9} \text{ m}$
micro	10^{-6}	$1 \text{ }\mu\text{m} = 10^{-6} \text{ m}$
milli	10^{-3}	$1 \text{ mm} = 10^{-3} \text{ m}$
centi	10^{-2}	$1 \text{ cm} = 10^{-2} \text{ m}$
deci	10^{-1}	$1 \text{ dm} = 10^{-1} \text{ m}$
kilo	10^3	$1 \text{ km} = 10^3 \text{ m}$
mega	10^6	$1 \text{ Mm} = 10^6 \text{ m}$

SI to English	Area and Volume conversions
1 qt = 946 ml	$1 \text{ cm}^2 = (10^{-2} \text{ m})^2 = 10^{-4} \text{ m}^2$
1 lb = 454 g	$1 \text{ cm}^3 = (10^{-2} \text{ m})^3 = 10^{-6} \text{ m}^3$
1 in = 2.54 cm	$1 \text{ dm}^3 = 1 \text{ L}$
	$1 \text{ cm}^3 = 1 \text{ mL}$

Other useful relations
Density of water is about 1 g/mL
Density of air is about 1 g/L