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## Measurement & Units

### Units of Length

Units	Measurement
10 millimeters (mm)	1 centimeter (cm)
10 centimeters	1 decimeter (dm)
10 decimeters	1 meter (m)
10 meters	1 dekameter
10 dekameters	1 hectometer
10 hectometers =	1 kilometer

### Units of Area

Units	Measurement
100 square millimeters (mm <sup>2</sup> )	1 square centimeter (cm <sup>2</sup> )
100 square centimeters	square decimeter (dm <sup>2</sup> )
100 square decimeters	quare meter (m <sup>2</sup> )
100 square meters	1 square dekameter (dam <sup>2</sup> )
100 square dekameters	1 square hectometer (hm <sup>2</sup> )
100 square hectometers	1 square kilometer (km <sup>2</sup> )

## Units of Liquid Volume

Units	Measurement
10 milliliters (mL)	1 centiliter (cL)
10 centiliters	1 deciliter (dL) = 100 milliliters
10 deciliters	1 liter = 1000 milliliters
10 liters	1 dekaliter (daL)
10 dekaliters	1 hectoliter (hL) = 100 liters
10 hectoliters	1 kiloliter (kL) = 1000 liters

## Units of Volume

Units	Measurement
1000 cubic millimeters (mm <sup>3</sup> )	1 cubic centimeter (cm <sup>3</sup> )
1000 cubic centimeters	1 cubic decimeter (dm <sup>3</sup> )
1000 cubic decimeters	1 cubic meter (m <sup>3</sup> )

## Units of Mass

Units	Measurement
10 milligrams (mg)	1 centigram (cg)
10 centigrams	1 decigram (dg)
10 decigrams	1 gram (g)
10 grams	1 dekagram (dag)
10 dekagrams	1 hectogram (hg)
10 hectograms	1 kilogram (kg)
1000 kilograms =	1 megagram (Mg) or 1 metric ton(t)

## Units of Length (Area)

Units	Measurement
12 inches (in)	1 foot (ft)
3 feet	1 yard (yd)
16½ feet	1 rod (rd), pole, or perch
40 rods	1 furlong (fur) = 660 feet
8 furlongs	1 U.S. statute mile (mi) = 5280 feet
1852 meters (m)	1 international nautical mile

## International System of Units

Unit Name	Symbol	Quantity
meter	m	Length
kilogram	kg	Mass
second	s	Time
ampere	A	Electric Current
kelvin	K	Thermodynamic temperature
mole	mol	Amount of substance
candela	cd	Luminous intensity
radian	rad	Angle
steradian	sr	Solid Angle
hertz	Hz	Frequency
newton	N	Force, weight
pascal	Pa	pressure, stress
joule	J	energy, work, heat
watt	W	Power, radiant, flux
coulomb	C	Electric charge
volt	V	Voltage, electromotive force
farad	F	Electric capacitance
ohm	$\Omega$	Electric resistance
tesla	T	Magnetic flux density
degree Celsius	$^{\circ}\text{C}$	Temperature
becquerel	Bq	radioactivity
henry	H	Magnetic induction
Angstrom	$\text{\AA}$	Wave length

## Conversion of Units

Unit I	Value in another unit
1 Inch	2.54 centimeter
1 Foot	0.3048 meter
1 Foot	30.48 centimeter
1 Yard	0.9144 meter
1 Mile	1609.34 meter
1 Chain	20.1168 meter
1 Nautical mile	1.852 kilometer
1 Angstrom	$10^{-10}$ meter
1 Square inch	6.4516 square centimeter
1 Acre	4046.86 square meter
1 grain	64.8 milligram

1 dram	1.77 gm
1 ounce	28.35 gm
1 pound	453.592 gram
1 horse power	735.499 Watt

## VALUES

Term	Symbol	value
yotta	Y	$10^{24}$
zetta	Z	$10^{21}$
exa	E	$10^{18}$
peta	P	$10^{15}$
tera	T	$10^{12}$
giga	G	$10^9$
mega	M	$10^6$
kilo	k	$10^3$
hecto	h	$10^2$
deka	da	$10^1$
deci	d	$10^{-1}$
centi	c	$10^{-2}$
milli	m	$10^{-3}$
micro	$\mu$	$10^{-4}$
nano	n	$10^{-9}$
pico	p	$10^{-12}$
femto	f	$10^{-15}$
atto	a	$10^{-18}$
zepto	z	$10^{-21}$
yocto	y	$10^{-24}$

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