Metric Conversions Worksheet

Conversion statements written as equalities

 Terra
 1Tm = 1000000000000
 1TL= 1000000000000
 1Ts= 100000000000

 Giga
 1Gm= 1000000000
 1GL= 1000000000
 1Gs= 1000000000

 Mega
 1Mm= 1000000
 1ML= 1000000
 1Ms= 1000000s

 Kilo
 1Km= 1000m
 1KL= 1000L
 1Ks= 1000s

Base units include meters, liters, joules, gram, seconds, bytes, hertz, ampere or any root

1L= 100cL 1s= Centi 1m= 100cm 100cs Milli 1m= 1000mm 1L= 1000mL 1s= 1000ms Micro 1m= 1000000um 1L= 1000000yL 1s= 1000000us Nano 1m= 1000000000nm 1L= 100000000nL 1s= 1000000000ns

Other important conversions

Length Mass to weight Volume

12 inches = 1 ft

3 ft = 1 yd

5280 ft = 1 mile

1. Convert the following to km:

1600.0 m = _____ 2050 cm = ____ 1.033 Mm = _____

245 565 mm = _____ 20 099 m = ____ 499 m = ____

2. Convert the following:

10.034 ms = _____ cs 36.45 cL = ____ µL

 $0.05 \text{ cm} = \text{mm} \quad 1202.5 \text{ mL} = \text{L}$

0.42101 Gg = Mg 25.5 km = m

0.12907 cm = mm $756 900 \text{ } \mu \text{s} = \text{ms}$

5600.4 Ms = Gs 268 000 cm = km

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Convert the following:

$$244475.3 \ \mu s = hs$$

$$0.00034 \ \mu L = ____ cL$$

Word Problems

- 1. The distance from here to the airport is 0.0000075 Gm. How far is this in km (a quantity that we are more used to talking about)
- 2. There are 10 computers in the computer lab that each have 20 GB hard drives. How many bytes (B) of disk space do we have in the computer lab in total.

3. A challenge: convert 100125368477004 ng to Teragrams.