LINEAR MEASUREMENTS

A simple way to remember the metric system is remembering the ladder method.

**KILO
1000 units
KILOMETER
(km)**

**HECTO
100 units
HECTOMETER
(hm)**

**DEKA
10 units
DEKAMETER
(dam)**

**BASE UNIT
METER**

**DECI
.1 units
DECIMETER
(dm)**

**CENTI
.01 units
CENTIMETER
(cm)**

**MILLI
.001 units
MILLIMETER
(mm)**

To convert to a smaller unit multiply by the power of 10 or move the decimal to the right. →

← To convert to a bigger unit, divide by the power of 10
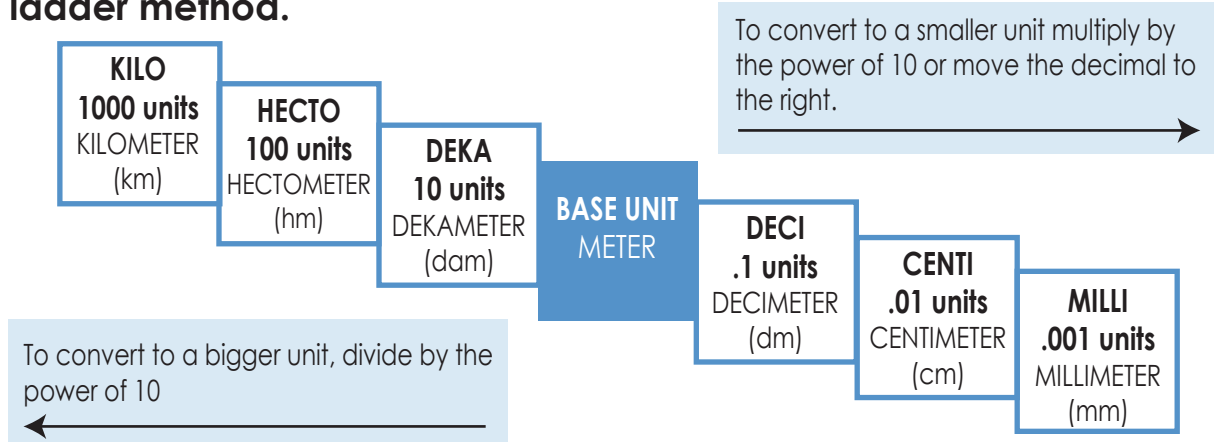
How do you use the "Ladder Method"?

1) Figure out a starting point.
2) Count the "jumps" to your end point.
3) Multiply or divide by 10 in the power of every "jump"

EXAMPLE :   4 m =   mm

1)   staring point   ending point
2) It takes 3 "jumps" to get from meter to millimeter
3) **4.0m = 4.0.0.0.m m = 4,000.0 mm**
    x 10^3 3 hops

Convert the following measurements using the ladder method.

1) 1 km = _____ dm   **2)** 6 m = _____ hm   **3)** 426 dm = _____ mm

4) 4 m = _____ cm   **5)** 90 cm = _____ dm   **6)** 800000 mm = _____ hm

7) 24 cm = _____ dam   **8)** 42 dam = _____ km   **9)** 45 m = _____ dam

10) 400 mm = _____ m   **11)** 3.6 hm = _____ cm   **12)** 2.1 km = _____ mm

13) 9 m = _____ mm   **14)** 188 cm = _____ m   **15)** 345 dm = _____ km

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