**Conversion Tables and Methods to Use when converting**

**from Metric Units to Metric Units (Length)**

**Some terms to remember**

|  |  |
| --- | --- |
| Meter – Length | Kilo – Thousand |
| Liter – Volume | **Milli – Thousand** |
| Gram – Mass/Weight | **Centi – Hundred** |
| Celsius – Temperature | **Deci – Ten** |

**Measure of Lengths**

|  |  |
| --- | --- |
| 10 millimeters (mm) = | 1 centimeter (cm) |
| 10 centimeters = | 1 **decimeter** (dm) = 100 millimeters |
| 100 centimeter = | 1 **meter** (m) = 1,000 millimeters |
| 1000 meters = | 1 **kilometer** (km) |

**Operations for Length**

**Example**: To get Centimeters from Meters you multiply the Meters by 10

**You Have**: 23 Meters

**You want Centimters**: **So, Centimeters = 23 Meters**

**We Multiply the meters by 100**: http://mste.illinois.edu/dildine/tcd_files/metric/Image26.gif

**You want Centimters**: **So, Centimeters = 23 Meters**

There are 2300 centimeters in 23 meters or 100 centimeters for every meter.

|  |  |  |
| --- | --- | --- |
| **If you have this** | **Do this** | **To get this** |
| millimeters (mm) | Divide by 10 (mm/10) | centimeter (cm) |
| centimeters (cm) | Multiply by 10 (cm \* 10) | Millimeters (mm) |
| Meters (m) | Multiply by 100 (m \* 100) | Centimeters (cm) |
| Centimeters (cm) | Divide by 100 (cm/100) | Meters (m) |
| Millimeters (mm) | Divide by 1000 (mm/1000) | Meters (m) |