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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **SI Base Units** | | | **Quantity Measured** | **Unit (symbol)** | | Length | Meter (m) | | Mass | Kilogram (kg) | | Volume | Liter (L) | | Time | Second (s) | | Electric current | Ampere (A) | | Temperature | Kelvin (K) | | Substance amount | Mole (mol) | | Light intensity | Candela (cd) | | **Metersticks** measure length (m).  **Glassware** measures volume (L).  **Triple-beam balances** measure mass (g).  **Thermometers** measure temperature (°C). | |  |  | | --- | --- | | **Prefixes** | | | **Prefix** | **Meaning** | | Mega- (M) | 1,000,000 | | Kilo- (k) | 1,000 | | Hecto- (h) | 100 | | Deka- (da) | 10 | | Base Unit | 1 | | Deci- (d) | 0.1 (or 1/10) | | Centi- (c) | 0.01 (or 1/100) | | Milli- (m) | 0.001 (or 1/1,000) | | Micro- (µ) | 0.000 001 (or 1/1,000,000) | |

**Metric Measurement Chart – King Henry Doesn’t Usually Drink Chocolate Milk**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Kilo- | Hecto- | Deca- | Base Unit | Deci- | Centi- | Milli- |
| Thousands | Hundreds | Tens | Ones | Tenths | Hundredths | Thousandths |
| kilometer (km)  kiloliter (kL)  kilogram (kg) | hectometer (hm)  hectoliter (hL)  hectogram (hg) | decameter (dam)  deciliter (daL)  decagram (dag) | Meter (m)  liter (L)  gram (g) | decimeter (dm)  deciliter (dL)  decigram (dg) | centimeter (cm)  centiliter (cL)  centigram (cg) | millimeter (mm)  milliliter (mL)  milligram (mg) |
| 1,000 | 100 | 10 | 1 | 0.1 | 0.01 | 0.001 |
| 0.001 | 0.01 | 0.1 | 1 | 10 | 100 | 1000 |

1) Larger measurement to smaller measurement = Multiply (move decimal to the right)

2) Smaller measurement to larger measurement = Divide (move decimal to the left)