Metric System :

A decimal system of weights and measures that is used universally in science and commonly throughout the world.

	Unit	Abbreviation	Approximate Comparison
Length	**Kilo**meter	km	length of 10 football fields
	Meter	m	Width of a door
	Centimeter	cm	Width of your little finger
	Millimeter	mm	Thickness of a dime
Mass	**Kilo**gram	kg	Mass of a textbook
	Gram	g	Mass of a small paper clip
Capacity	Liter	L	Carton of Juice
	Milliliter	mL	Half-filled eye dropper

PRACTICE!

A pencil is about 15 ___cm___ long

The mass of an average man is about 75 ___kg___

A pail holds about 20 ___l___

PRACTICE!

A soda can is about 12 ___cm___ tall

The mass of a pen is about 5 ___g___
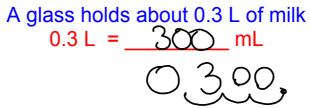
A sip of water is about 3 ___mL___

Metric Football

In the Metric System, each unit measure is ten times greater
than the unit to its right in a place-value chart

1,000	100	10	1	0.1	0.01	0.001
Thousands	Hundreds	Tens	Ones	Tenths	Hunderdths	Thousandths
Kilo-	Hecto-	Deca-	Base Unit: Grams Meters Liters	Deci-	Centi-	Milli-

The Mass of a Backpack is about 6,500 g

6,500 g = __6.5__ kg

6500.

1,000	100	10	1	0.1	0.01	0.001
Thousands	Hundreds	Tens	Ones	Tenths	Hunderdths	Thousandths
Kilo-	Hecto-	Deca-	Base Unit: Grams Meters Liters	Deci-	Centi-	Milli-

left

A glass holds about 0.3 L of milk

0.3 L = __300__ mL

0.300

1,000	100	10	1	0.1	0.01	0.001
Thousands	Hundreds	Tens	Ones	Tenths	Hunderdths	Thousandths
Kilo-	Hecto-	Deca-	Base Unit: Grams Meters Liters	Deci-	Centi-	Milli-

right →

The mass of a cat is about 7 kg

7kg = __7000__ g

7000

A race is about 5,000 m long.

5,000 m = __50,000__ decimeters

50000

A container holds 0.5 L of solution

0.5 L = __.005__ hectoliters

005