

METROLOGY

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CLASSIFICATION

- Metric System
- Imperial System / Avoirdupois System
- Apothecary's System / Troy

METROLOGY

- **Weights and Measures**

Metrology is the science of weights and measures. It encompasses a study of the various systems of weights and measures, their relationships and knowledge of the mathematics involved.

METRIC SYSTEM

- It is the internationally accepted decimal system of weights and measures.
- The units are divided into tenth, the unit of volume and length are related and unit of volume is comparable to the unit of weight.

IMPERIAL SYSTEM

- Applied to the weight and measures, used throughout the United Kingdom. It was formerly recognized by the British Pharmacopoeia.
- Imperial system of weight and measures is commonly known as **AVOIRDUPOIS SYSTEM**.

APOTHECARY'S SYSTEM

This system was used by the Physicians in writing the prescriptions and by the Pharmacist in dispensing and retail trade.

METRIC SYSTEM

PREFIX	SUFFIX		
	WEIGHT	LENGTH	VOLUME
Kilo- Hecto- Deka- Deci- Centi- Milli- Micro-	Gram	Meter	Liter

IMPERIAL SYSTEM

- 1 Pound = 16 Ounce
- 1 Ounce = 437.5 Grains
- 1 Pound = 7000 Grains

APOTHECARY'S SYSTEM

- 1 Pound = 12 Ounce
- 1 Ounce = 480 Grains
- 1 Pound = 5,760 Grains

NOTE

- Grains are equal in both the System.
- Ounce of Avoirdupois is lighter than the Apothecary System.
- Apothecary Pound is 1240 grains lighter than the Avoirdupois System.

MEASURES OF CAPACITY (VOLUME)

- 1 Gallon = 160 Fluid Ounce
- 1 Fluid Ounce = 8 Fluid Drachm
- 1 Fluid Drachm = 60 minims

DOMESTIC/HOUSEHOLD MEASURES

- 1 Drop = 1 minim.
- 1 Tea spoonful = 1 Fluid drachm.
- $\frac{1}{2}$ Tea spoonful = $\frac{1}{2}$ Fluid drachm.
- 1 Table spoonful = 4 Fluid drachm.

20 Drops = 1 ml.