

Numerical Value

The number of times the standard of measurement (unit) included in the value of the physical quantity is called its **numerical value**.

The unit of a fundamental quantity is called a **fundamental unit** or a **base unit**. Units of derived quantities are called **derived units**.

- Every **derived unit** can be expressed as combination of base units or fundamental units.

Characteristics of base units:

- (a) Well defined
- (b) Easy to access
- (c) Invariable
- (d) Convenient in use

System of Units

A complete set of units, both for fundamental and for derived quantities is called a **system of unit**.

There are various systems in use over the world. The base units for length, mass and time in these systems were as follows:

- **In CGS system** they were centimeter, gram and second respectively.