Supplementary Fundamental Units:

S. No.	Physical Quantity	S.I. Unit	Symbol
1.	Plane angle	radian	rad
2.	Solid angle	steradian	sr

Magnitude of a Physical Quantity

Magnitude of physical quantity (Q) = (numerical value) × (unit) Magnitude of a physical quantity is always constant. It is independent of the type of unit i.e. if a different unit is chosen for measurement, the numerical value also changes such that the product of the numerical value and the value of unit remains the same.

For example: 35m = 3500cm = 35000mm. The length of a metal rod bar is unchanged whether it is measured in meter, centimeter or in millimeter.

Q = n.u = constant

If u_1 and u_2 are two different units of the same quantity, then

$$\mathbf{Q} = \mathbf{n}_1 \mathbf{u}_1 = \mathbf{n}_2 \mathbf{u}_2 = \text{constant}$$

numerical value
$$\propto \frac{1}{unit}$$

 \Rightarrow