

$$1 \text{ km} \xrightarrow[1000 \div]{\times 1000} \text{ m} , 1 \text{ m} \xrightarrow[100 \div]{\times 100} \text{ cm}$$

$$1 \text{ cm} \xrightarrow[10 \div]{\times 10} \text{ mm} , 1 \text{ mi} \xrightarrow[1609 \div]{\times 1609} \text{ m}$$

$$1 \text{ h} \xrightarrow[60 \div]{\times 60} \text{ min} , 1 \text{ min} \xrightarrow[60 \div]{\times 60} \text{ s}$$

$$1 \text{ mi} \xrightarrow[5280 \div]{\times 5280} \text{ ft} \xrightarrow[12 \div]{\times 12} \text{ in} \xrightarrow[2.54 \div]{\times 2.54} \text{ cm} \xrightarrow[10^2 \div]{\times 10^{-2}} \text{ m}$$

$$1 \frac{\text{mi}}{\text{h}} \xrightarrow[1.609 \div]{\times 1.609} \frac{\text{km}}{\text{h}} , 1 \frac{\text{m}}{\text{s}} \xrightarrow[3.6 \div]{\times 3.6} \frac{\text{km}}{\text{h}}$$

$$1 \frac{\text{mi}}{\text{h}} \xrightarrow[0.45 \div]{\times 0.45} \frac{\text{m}}{\text{s}}$$

$$1 \text{ year} \xrightarrow[365.25 \div]{\times 365.25} \text{ day} \xrightarrow[24 \div]{\times 24} \text{ hour} \xrightarrow[60 \div]{\times 60} \text{ min} \xrightarrow[60 \div]{\times 60} \text{ s}$$

## Dimensions.

Base	Unit	Dimension
Length	m "متر"	[L]
Time	s "ثانية"	[T]
Mass	kg "كيلوجرام"	[M]

$$\text{Speed} \Rightarrow \frac{\text{m}}{\text{s}} \Rightarrow \frac{[L]}{[T]} , \text{volum} \Rightarrow \text{m}^3 \Rightarrow [L^3]$$

$$\text{Force} \Rightarrow \text{kg} \cdot \frac{\text{m}}{\text{s}^2} \Rightarrow [M] \cdot \frac{[L]}{[T^2]}$$