

Big 13 Units

That You Need to Memorize

Dimension	SI	English	Conversions to Know
time	s, hr	s, hr	$3600 \text{ s} = 1 \text{ hr}$
length	m	ft	$1 \text{ m} = 3.2808 \text{ ft}$
mass	kg	lbm, slug	$1 \text{ kg} = 2.2046 \text{ lbm}$ $1 \text{ slug} = 32.174 \text{ lbm}$
force	N	lbf	$1 \text{ N} = 1 \frac{\text{kg} \cdot \text{m}}{\text{s}^2}$ $1 \text{ lbf} = 1 \frac{\text{slug} \cdot \text{ft}}{\text{s}^2}$ $1 \text{ lbf} = 32.174 \frac{\text{lbm} \cdot \text{ft}}{\text{s}^2}$ $1 \text{ lbf} = 4.448 \text{ N}$
temperature	K, °C	°R, °F	$1^\circ\text{R} = \frac{9}{5} \text{ K}$ $1^\circ\text{R} = 1^\circ\text{F} + 459.67$ $1 \text{ K} = 1^\circ\text{C} + 273.15$ $1^\circ\text{F} = \frac{9}{5}^\circ\text{C} + 32$