

### 1.1) Terminology

Statics: Study of bodies that are at rest or move at a constant velocity

Force: Push or pull exerted by one body onto another

Particle: Has mass, but size effects are neglected (Neglect the geometry/shape of the object)

Rigid Body: Does not deform (Neglect material behavior)

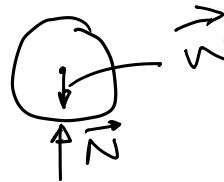
Weight:  $W = mg$  where,

W: Weight

m: Mass

g: Acceleration due to gravity ( $9.81 \text{ m/s}^2$  or  $32.2 \text{ ft/s}^2$ )

Concentrated Forces: Forces are applied at a single point on the body



### 1.2) Newton's 3<sup>rd</sup> Law with respect to "cuts"

