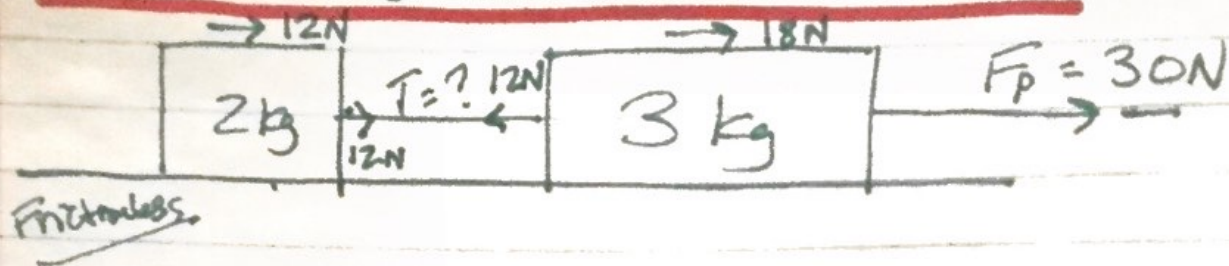


Tension in strings between connected blocks



- ① Find total mass of all blocks = 5 kg
- ② $a = ?$ (of system) $a = \frac{F_p}{m_T} = \frac{30\text{N}}{5\text{kg}} = \boxed{6 \frac{\text{m}}{\text{s}^2}}$ both blocks
- ③ What is ΣF_{net} on 3 kg block? $\Sigma F = m_3 a = (3)(6) = \underline{18\text{N}}$
- ④ What is ΣF_{net} on 2 kg block? $\Sigma F = m_2 a = (2)(6) = \underline{12\text{N}}$