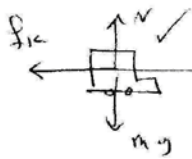


$$\Sigma F_{11} = ma \quad N - mg = ma \quad \checkmark \quad \frac{5}{10} \quad -11$$

$$N = ma + mg = 8 \cdot (1+1) = 16 \text{ N} \quad \checkmark \checkmark$$



$$v_0 = \frac{v \Delta x}{\Delta t} = 1 \text{ m/s} \quad v - v_0 = a \Delta x \quad \checkmark \quad -12$$

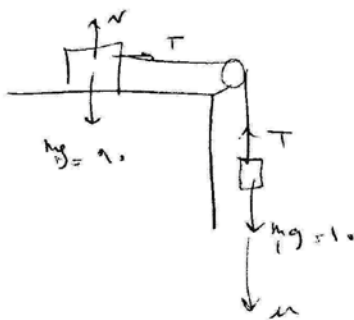
$$\Delta x = 18 \quad 0 - 1 = a(18) \quad a = -\frac{1}{18} \text{ m/s}^2 \quad \checkmark$$

$$v = 0$$

$$\Sigma F_{11} = N = mg = 16 \text{ N} \quad \checkmark$$

$$\Sigma F_{11} = ma \quad -f_k = ma \quad -f_k = (10)(1) \Rightarrow f_k = 10 \text{ N} \quad \checkmark$$

$$f_k = \mu_k N \quad 10 = \mu_k 16 \quad \mu_k = \frac{10}{16} = 0.625 \quad \checkmark$$



$$\Sigma F_{11} = ma \quad \checkmark \quad -13$$

$$m_1 g - T + T = (m_1 + m_2) a \quad \checkmark$$

$$10 = (1+1) a \rightarrow a = 5 \text{ m/s}^2 \quad \checkmark$$

$$T = m_2 a \quad T = 1(5) = 5 \text{ N} \quad \checkmark$$