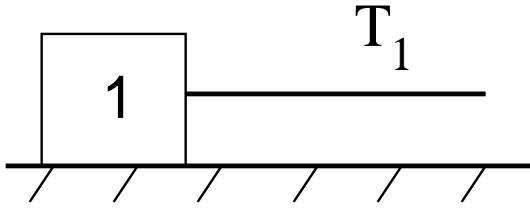


Ex : Case #1 :



Assume : Massless rope

Find : a

1). Draw “free-body” diagram to identify the forces.

2). Write  $\Sigma F$  components using Newton's second law.

$$T_1 = m_1 a_x \quad N - m_1 g = m_1 a_y$$

Thus,  $N = m_1 g$   $a_x = \frac{T_1}{m_1}$