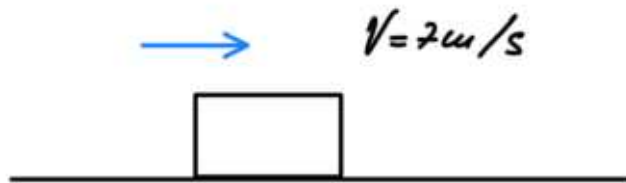


EJERCICIO FQ1BE3490:

"achivages.com"



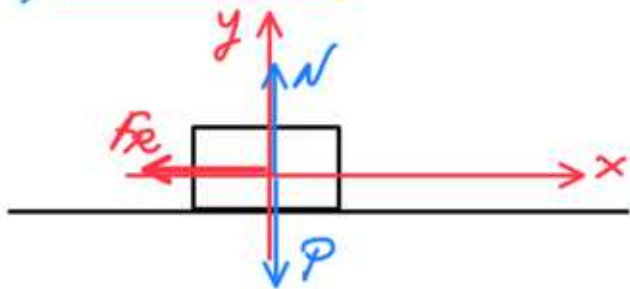
$$\mu = 0.15$$

$$V_0 = 7 \text{ m/s}$$

a) aceleració?

b) S'ha ta $V=0$

a) Aceleració:



$$\Sigma F_x = m \cdot a$$

$$-f_R = m \cdot a$$

$$-\mu \cdot N = m \cdot a$$

Eg: $\Rightarrow N - P = 0 \Rightarrow N = P = mg$

$$-\mu \cdot N = m \cdot a \Rightarrow -\mu \cdot m \cdot g = m \cdot a$$

$$a = -\mu g = -0.15 \cdot 9.8 = -1.47 \text{ m/s}^2$$

b) S'ha ta que s'acabaria:

MRUA

$$(1) S = S_0 + V_0 t + \frac{1}{2} a t^2$$

$$(2) V = V_0 + a t$$

$$V_0 = 7 \text{ m/s} \quad a = -1.47 \text{ m/s}^2$$

$$V = 0$$

$$(2) \Rightarrow 0 = 7 - 1.47 t \Rightarrow 1.47 t = 7$$

$$t = \frac{7}{1.47} = 4.76 \text{ s}$$

$$(1) S = 0 + 7 \cdot 4.76 - \frac{1}{2} \cdot 1.47 \cdot 4.76^2$$

$$S = 16.67 \text{ m}$$