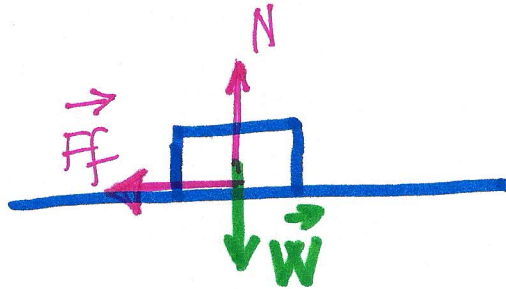


Pb 7

$$m = 675 \text{ kg}$$

$$\mu_s = 0.75$$

$$a_{\text{max}} = ?$$



Newton's 2<sup>nd</sup> Law

$$\underline{F_{\text{NET}} = m \cdot a}$$

$$a = \frac{F_{\text{NET}}}{m}$$

$$= \frac{-F_f}{m} = \frac{-\mu_s \cdot N}{m} = \frac{-\mu_s \cdot m \cdot g}{m} = -\mu_s \cdot g$$

$$a = -\mu_s \cdot g$$