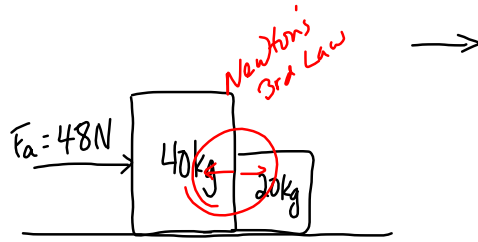
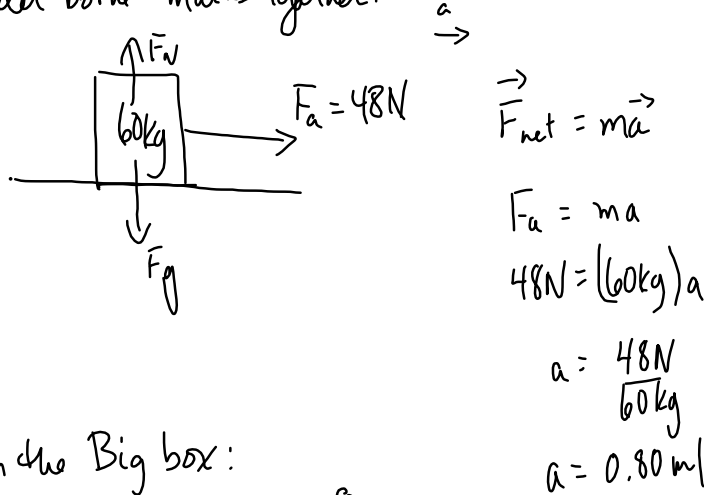


P2081

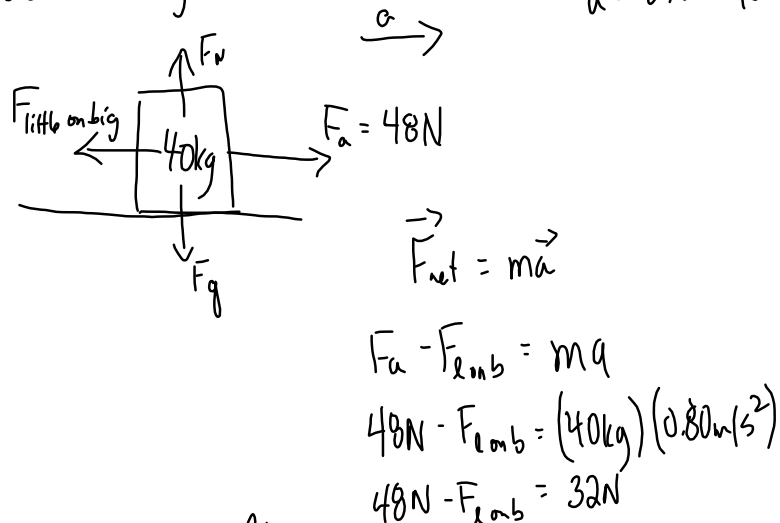
27.



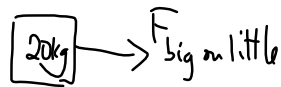
Consider both masses together:



Consider the Big box:



OR Consider only the little box:



$$F_{net} = ma$$

$$F_{b on l} = (20kg)(0.80 m/s^2)$$

$$F_{b on l} = 16N$$

p212

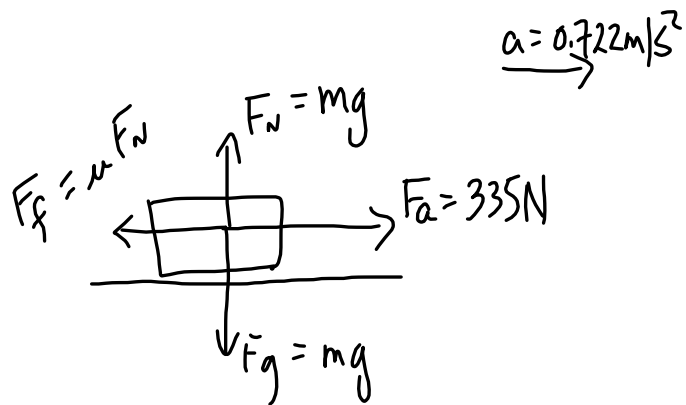
33.

$$F_a = 335 \text{ N}$$

$$a = 0.722 \text{ m/s}^2$$

$$\mu = 0.330$$

$$m = ?$$



$$\vec{F}_{\text{net}} = m\vec{a}$$

$$F_a - F_f = ma$$

$$335 \text{ N} - 0.330 F_N = m(0.722 \text{ m/s}^2)$$

$$335 \text{ N} - 0.330 \underbrace{(mg)}_{F_N} = m(0.722 \text{ m/s}^2)$$

$$335 \text{ N} = (0.330)(9.81 \text{ m/s}^2) \underline{m} + (0.722 \text{ m/s}^2) \underline{m}$$

Combine like terms

or
factor m