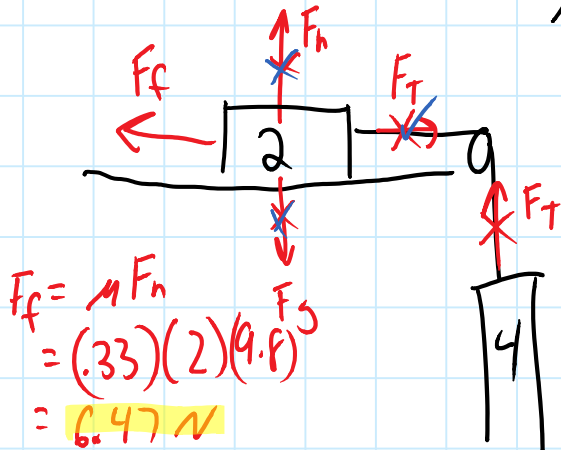


M.33

Find F_T



$$F_f = \mu F_n$$

$$= (0.33)(2)(9.8)$$

$$= 6.47 \text{ N}$$

$$F_g = mg$$

$$= 4(9.8)$$

$$= 39.2 \text{ N}$$

$$F_{net} = W - L$$

$$= 39.2 - 6.47$$

$$= 32.7 \text{ N}$$

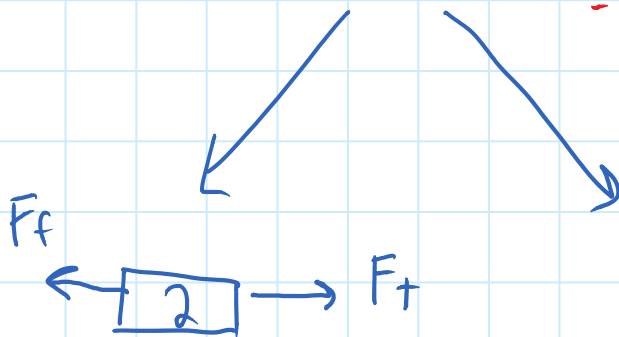
Find force of whole system then I can get acceleration.

$$F_{net} = ma$$

$$32.7 = (4+2)a$$

$$\frac{32.7}{6} = a$$

$$5.45 \frac{\text{m}}{\text{s}^2} = a$$



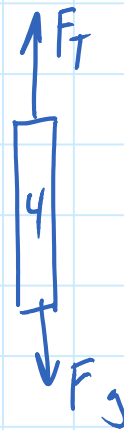
$$F_{net} = F_T - F_f$$

$$\downarrow$$

$$ma$$

$$2(5.45) = F_T - 6.47$$

$$F_T = 17.4 \text{ N}$$



$$F_{net} = F_g - F_T$$

$$\downarrow$$

$$ma$$

$$4(5.45) = 39.2 - F_T$$

$$F_T = 17.4 \text{ N}$$