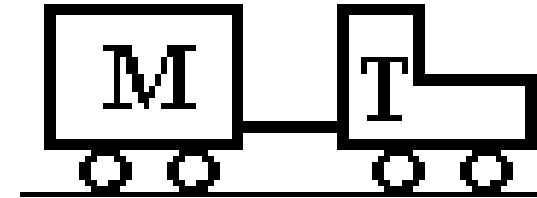


Net Force ACT



Compare F_{tractor} the net force on the tractor, with F_{trailer} the net force on the trailer from the previous problem.

A) $F_{\text{tractor}} > F_{\text{trailer}}$

B) $F_{\text{tractor}} = F_{\text{trailer}}$

C) $F_{\text{tractor}} < F_{\text{trailer}}$

$$\Sigma F = m a$$

$$F_{\text{tractor}} = m_{\text{tractor}} a$$

$$= (300 \text{ kg}) (1.5 \text{ m/s}^2)$$

$$= 450 \text{ N}$$

$$F_{\text{trailer}} = m_{\text{trailer}} a$$

$$= (400 \text{ kg}) (1.5 \text{ m/s}^2)$$

$$= 600 \text{ N}$$