



$$m_B = 0.8\text{kg}$$

$$\Sigma \tau_A = F_A \cdot 0 - (8\text{N})(0.4\text{m}) - 20\text{N}(0.6\text{m}) + F_B(0.8)$$

$$\Sigma \tau_A = -3.2\text{N}\cdot\text{m} - 12\text{N}\cdot\text{m} + F_B(0.8\text{m}) = 0$$

$$F_B = \frac{15.2\text{N}\cdot\text{m}}{0.8\text{m}} = 19\text{N}$$

$$\Sigma F = F_B + F_A = (2.8)\text{kg} \cdot 10\text{m/s}^2 = 28\text{N}$$

$$F_A = 28\text{N} - F_B = 28\text{N} - 19\text{N}$$

$$F_A = 9\text{N}$$