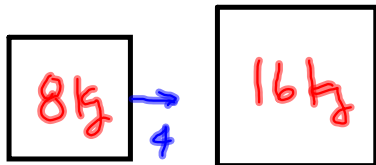
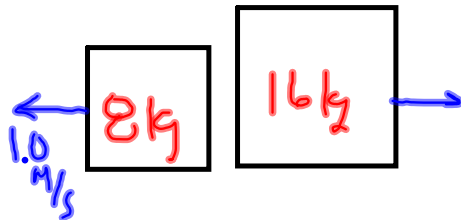


$$p_i = 32 \text{ kg} \frac{\text{m}}{\text{s}}$$



$$p_f = 32 \text{ kg} \frac{\text{m}}{\text{s}}$$



$$32 = -(8 \times 1) + (16 \times v)$$

$$\begin{array}{r} 32 \\ + 8 \\ \hline 40 \end{array}$$

$$v = \frac{40}{16} = 2.5 \text{ m/s}$$