

ANSWER QUESTION 3 ONLY

$$\therefore KE_f - KE_i = 0.6 \text{ J}$$

$$\frac{1}{2} \cdot 3 v^2 - 0 = 0.6 \text{ J}$$

$$v^2 = 0.4$$

$$v = 0.6 \text{ m s}^{-1}$$