

$$22.75 \text{ kg m/s } p = m \cdot v$$



3.5 m/s



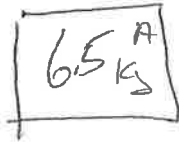
8.75 kg m/s



3.5 m/s



$$p = 8.75 \text{ kg m/s}$$



$$p = 22.75 \text{ kg m/s}$$

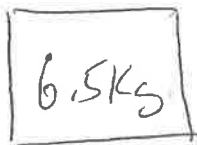
$$m = 2.5 \text{ kg}$$

$$v =$$

$$\frac{p}{m} = \frac{m \cdot v}{m} = v$$

inelastic

2.5 m/s



3.5 m/s



$$p = m \cdot v$$

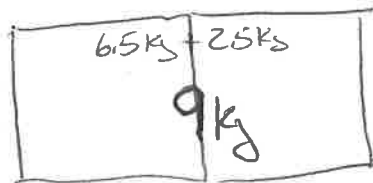
$$16.25 = 6.5 \text{ kg} \cdot 2.5 \text{ m/s}$$

$$p = 16.25 \text{ kg m/s} \rightarrow$$

$$p = m \cdot v$$

$$8.75 \text{ kg m/s} = 2.5 \text{ kg} \cdot 3.5 \text{ m/s}$$

$$p = 8.75 \text{ kg m/s}$$



$$p = 16.25$$

$$p = 16.25 \text{ kg m/s} + (-8.75 \text{ kg m/s}) = 7.5 \text{ kg m/s}$$

$$p = 7.5 \text{ kg m/s}$$

$$m = 9 \text{ kg}$$

$$v =$$



$$\frac{7.5 \text{ kg m/s}}{9 \text{ kg}}$$

$$\frac{p = m \cdot v}{m} = v$$

$$\frac{p}{m} = v$$

