

momentum

momentum means:

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

Impulse on the other hand is the change in momentum described by the equation:

$$Ft = \Delta mv$$

Conservation of momentum

Momentum is similar to energy in that the initial momentum is equal to the final momentum

$$\vec{p}_i = \vec{p}_f$$

for example what happens when one pool ball strikes another square on

$$\vec{p}_i = \vec{p}_f$$

$$m_1\vec{v}_{1i} + m_2\vec{v}_{2i} = m_1\vec{v}_{1f} + m_2\vec{v}_{2f}$$

$$m_1\vec{v}_{1i} + 0m/s = 0m/s + m_2\vec{v}_{2f}$$

$$\vec{v}_{1i} = \vec{v}_{2f}$$

momentum questions

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