

# Worksheet: Conservation of Momentum

## CHAPTER 8: Momentum

Directions: Answer the following questions concerning the conservation of momentum using the equations below. Show all of your work to receive credit.

$$p = mv$$

$$Ft = \Delta(mv)$$

$$\text{impulse} = F\Delta t$$

$$P_{\text{before}} = P_{\text{after}}$$

$$\text{net momentum before} = \text{net momentum after}$$

$$(m_1v_1 + m_2v_2)_{\text{before}} = (m_1v_1 + m_2v_2)_{\text{after}}$$

1. When these two freight cars of different mass collide and couple, what will be their resultant velocity?



$$m_1v_1 + m_2v_2 = (m_1 + m_2)v_3$$

$$10000(4) + 30000(0) = (40000)v_3$$

$$40000 \text{ kg} \cdot \frac{m}{s} = 40000 \text{ kg} v_3$$

$$v_3 = 1 \text{ m/s}$$

*1 ton = 907.185 kg  
assume 1 ton = 1000 kg*

2. A 2 kg blob of putty moving at 4 m/s slams into a 6 kg blob of putty at rest. What is the speed of the two stuck-together blobs immediately after colliding?



$$2 \text{ kg} (4 \text{ m/s}) + 6 \text{ kg} (0) = (2 \text{ kg} + 6 \text{ kg}) v_3$$

$$8 \text{ kg} \cdot \frac{m}{s} = 8 \text{ kg} v_3$$

$$v_3 = 1 \text{ m/s}$$

3. A football player runs at 8 m/s and plows into a 80 kg referee standing on the field causing the referee to fly forward at 5.0 m/s. If this were a perfectly elastic collision, what would the mass of football player be? *we have to assume v=0 for player after collision*

$$P_{\text{before}} = P_{\text{after}}$$

$$m_1v_1 + m_2v_2 = m_1v_3 + m_2v_4$$

$$m_1 \left( \frac{8m}{s} \right) + \text{at rest} = \text{player stops} + (80 \text{ kg}) \left( \frac{5m}{s} \right)$$

$$m(e) = 400$$

$$m = 50 \text{ kg}$$

# Conservation Of Momentum Questions Answers Uphoneore

**A Gutmann**



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