

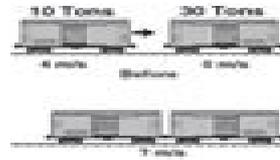
Worksheet: Conservation of Momentum

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

net momentum before = net momentum after

$$(m_1 v_1 + m_2 v_2)_{\text{before}} = (m_{\text{total}} v)_{\text{after}}$$

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



$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (10 \text{ tons} \cdot 4 \frac{\text{m}}{\text{s}}) + (30 \text{ tons} \cdot 0 \frac{\text{m}}{\text{s}}) &= (40 \text{ tons}) (v_{\text{net}}) \\
 40 \frac{\text{ton} \cdot \text{m}}{\text{s}} + 0 \frac{\text{ton} \cdot \text{m}}{\text{s}} &= (40 \text{ tons}) (v_{\text{net}}) \\
 \frac{40 \text{ ton} \cdot \text{m}}{40 \text{ ton}} &= \frac{40 \text{ tons} (v_{\text{net}})}{40 \text{ ton}} \\
 v_{\text{net}} &= 1 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

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?

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (2 \text{ kg}) (4 \frac{\text{m}}{\text{s}}) + (6 \text{ kg}) (0 \frac{\text{m}}{\text{s}}) &= (8 \text{ kg}) (v_{\text{net}}) \\
 8 \frac{\text{kg} \cdot \text{m}}{\text{s}} + 0 \frac{\text{kg} \cdot \text{m}}{\text{s}} &= (8 \text{ kg}) (v_{\text{net}}) \\
 \frac{8 \text{ kg} \cdot \text{m}}{8 \text{ kg}} &= \frac{(8 \text{ kg}) (v_{\text{net}})}{8 \text{ kg}} \\
 v_{\text{net}} &= 1 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

3. A 100 kg football player runs at 8 m/s and plows into an 80 kg referee standing on the field causing the referee and the player stick together and fly forward. What would the new velocity be?

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (100 \text{ kg}) (8 \frac{\text{m}}{\text{s}}) + (80 \text{ kg}) (0 \frac{\text{m}}{\text{s}}) &= (180 \text{ kg}) (v_{\text{net}}) \\
 800 \frac{\text{kg} \cdot \text{m}}{\text{s}} + 0 \frac{\text{kg} \cdot \text{m}}{\text{s}} &= (180 \text{ kg}) (v_{\text{net}}) \\
 \frac{800 \text{ kg} \cdot \text{m}}{180 \text{ kg}} &= \frac{(180 \text{ kg}) (v_{\text{net}})}{180 \text{ kg}} \\
 v_{\text{net}} &= 4.4 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

Chapter 8 Momentum Answers

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