

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.

$$p = mv$$

$$Ft = \Delta(mv)$$

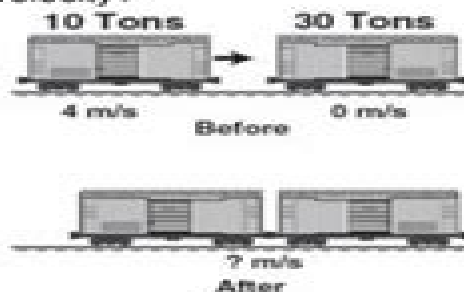
$$\text{impulse} = F\Delta t$$

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

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

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

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



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?

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?

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Curtis Paul Dumermuth



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