

W7.04**MOMENTUM**

Impulse / Elastic Collisions - Thinking

1. Give an example for each of the following.
 - a. where momentum is conserved and energy is conserved.

 - b. where momentum is conserved and energy is not conserved.

 - c. where momentum is not conserved.

2. In terms of impulse, explain why airbags help to prevent injury.

3. Which delivers a bigger impulse to an object, having a ball thrown and stick to an object or having an object thrown and bounce off an object? Explain.

4. A student throws her book across the floor and it slides to rest. If momentum is truly conserved, what happened to the momentum of the book?