

Cycle 25 Momentum

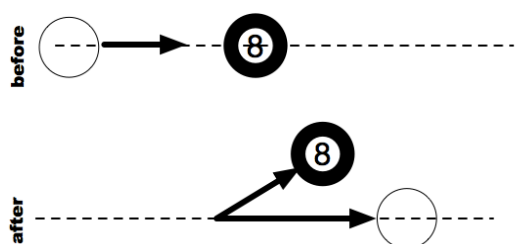
Review

Questions

1. When is momentum NOT conserved?

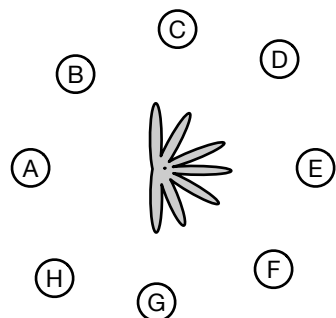
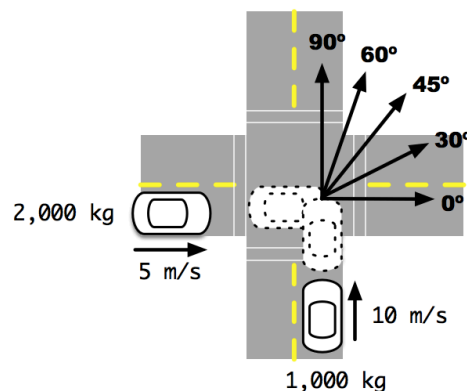
2. Two balls of clay are thrown at each other, and stick together. During the collision, which of the following are true? CHOOSE ALL THAT APPLY.

- ☐ Energy is conserved.
- ☐ Kinetic Energy is conserved.
- ☐ Momentum is conserved.



3. The cue ball is hit toward the 8-ball. Explain why the after situation for this collision is not possible.

4. For the collision shown at right, assuming the vehicles move together after the crash, which is the most likely direction of movement? Explain how you know.



5. Students were standing in the positions shown at left (top view). Who most likely threw the water balloon? The water balloon's splatter pattern is shown in gray.

Problems

