

Mr. Hemmingsen

Chapter 7 – Momentum Questions.

1. Compared to a truck moving 20 miles per hour, what is the momentum of the same truck moving at 40 miles per hour?
2. Consider this statement. If the momentum of an object is changing and its mass is constant, what can you say about its acceleration, forces, and velocity?
3. If you want to increase the momentum of a golf ball, what could you do? List several options.
4. When is a collision considered elastic?
5. Which will have the largest momentum? A freight train traveling down a track, a dog running down a street or a person walking.
6. A plane is flies with considerable momentum. If the plane continues at the same speed but it has twice the mass, what would be its momentum?
7. A 2-kg ball is thrown at 3 m/s. What is the ball's momentum?
8. A ball is moving at 6 m/s and has a momentum of 24 kg*m/s. What is the ball's mass?