Name	Class	Date

Assessment)

Momentum and Collisions

Section Quiz: Elastic and Inelastic Collisions

- Write the letter of the correct answer in the space provided. 1. Two cars collide, lock bumpers, and move together after the collision. What kind of collision is this? **a.** elastic collision **b.** inelastic collision c. perfectly elastic collision **d.** perfectly inelastic collision **2.** A tennis ball is dropped from 1.0 m, bounces off the ground, and rises to 0.85 m. What kind of collision occurred between the ball and the ground? a. elastic collision **b.** inelastic collision **c.** perfectly elastic collision **d.** perfectly inelastic collision **3.** In what kind of collision is kinetic energy always conserved? a. elastic collision **b.** inelastic collision c. perfectly elastic collision **d.** perfectly inelastic collision **4.** Most collisions in the everyday world are a. elastic collisions. **b.** inelastic collisions. c. perfectly elastic collisions. **d.** perfectly inelastic collisions.
 - **5.** When an inelastic material is in a collision,
 - **a.** the work done to deform the material is equal to the work done to return the material to its original shape.
 - **b.** the work done to deform the material is equal to the work the material does to other objects in the collision.
 - c. the work done to deform the material is equal to the increase in the system's total kinetic energy.
 - **d.** some of the work done to deform the material is converted to other forms of energy.

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Mom	nentum and Collision	ns continued	Name and
	collision. Which of a. Both momentum is c. Kinetic energy	ollides with another heliu of the following is true? um and kinetic energy are conserved but kinetic en r is conserved but momen entum nor kinetic energy	e conserved. ergy is not conserved. ntum is not conserved.
1/23	following is true? a. Both momentumb. Momentum isc. Kinetic energy		nergy is not conserved. entum is not conserved.
9 Ev	lost in a collisiona. The collision pb. At least one ofc. At least one ofthe collision.d. One of the obj	oroduces a sound. If the objects is deformed If the objects increases in If the is at rest after the co	temperature as a result of
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col firs the	llision with another bast ball moves to the le e second ball after the	eft at 0.85 m/s after the co	to the left at 0.85 m/s. The ollision. Find the velocity of answer by calculating the