

What is Newton's first law of motion?

Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true. Write your answers in the spaces provided.

- _____ 1. Inertia is the tendency of an object to stay at rest or in motion.
- _____ 2. Balanced forces are needed to move a pencil across a desk.
- _____ 3. A chair will move by itself because of its inertia.
- _____ 4. Newton's first law of motion explains how inertia affects moving objects.
- _____ 5. In a car accident, a passenger not wearing a seat belt may crash through a windshield because of his or her inertia.
- _____ 6. A balanced force does not change the velocity of an object.
- _____ 7. An object will remain at rest unless a balanced force acts upon it.
- _____ 8. In baseball, inertia makes it easy for a baseball player to make sharp turns at the bases.

Skill Challenge

Skills: *experimenting, analyzing*

Read the following description of an experiment. In the space provided, write a conclusion explaining the results of this experiment in terms of inertia.

Shannon placed an uncooked egg on her desk. She gave the egg a gentle turn to start it spinning. She then stopped the egg from spinning for a moment, and quickly released it. When she released the egg, the egg began to spin again.

Conclusion: _____

