

SECTION
2-3

Newton's Laws of Motion

(pages 41-47)

KEY CONCEPTS

▲ The first law of motion states that an object at rest will remain at rest and an object in motion will remain in motion at constant velocity unless acted upon by an unbalanced force.

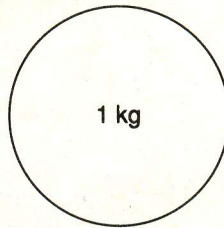
▲ Newton's second law of motion shows how force, mass, and acceleration are related.

▲ The third law of motion states that for every action, there is an equal and opposite reaction.

Building Vocabulary Skills: Exploring Definitions

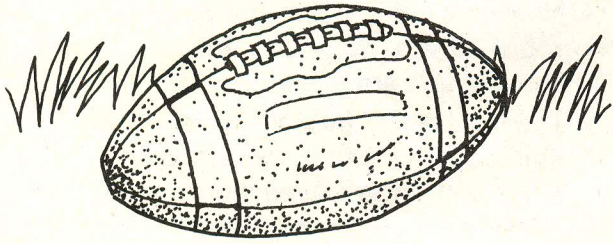
1. Explain how the word **inertia** is related to its Latin root word *iners*, which means idle or lazy.

2. In the space below, draw a diagram to show the meaning of the term **newton**. Use the 1-kg mass in your drawing. Then write a definition of the term newton.

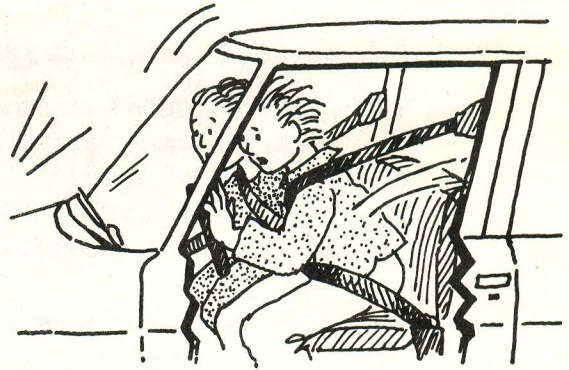


■ **Newton's Laws: Using the Main Ideas**

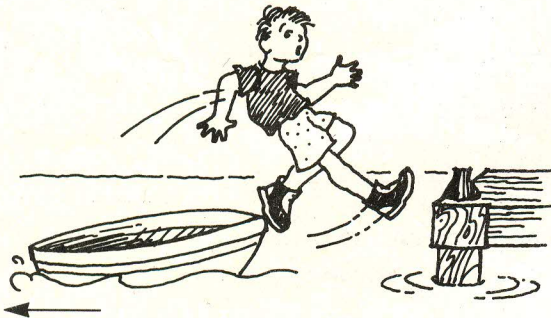
Look carefully at the illustrations below. Decide which of Newton's laws is illustrated in each example. Then explain how the situation illustrates the law.



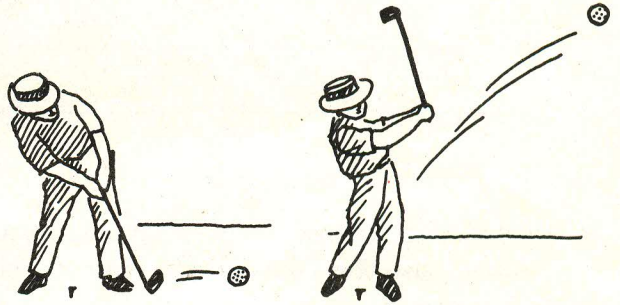
1. _____



2. _____



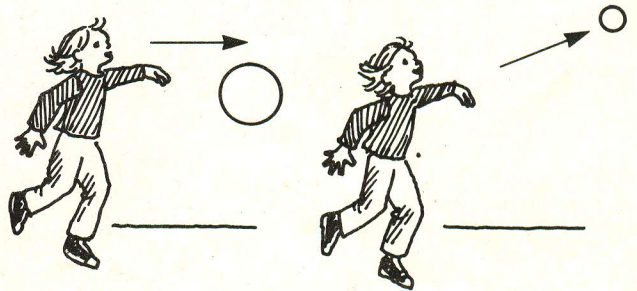
3. _____



4. _____



5. _____



6. _____

