

1. What is the first law of motion?

- (A) An object at rest will stay at rest, and an object in motion will stay in motion with the same speed and in the same direction unless acted upon by an unbalanced force.
- (B) An object at rest will start moving with a different speed and in a different direction unless acted upon by an unbalanced force.
- (C) An object at rest will stay at rest, and an object in motion will stay in motion with a different speed and in a different direction unless acted upon by an unbalanced force.
- (D) An object at rest will start moving with the same speed and in the same direction unless acted upon by an unbalanced force.

2. According to the first law of motion, what happens to an object when no force is acting on it?

- (A) It starts moving with a constant acceleration.
- (B) It starts moving with a decreasing velocity.
- (C) It starts moving with an increasing velocity.
- (D) It remains at rest or continues to move with a constant velocity.

3. Which of the following is an example of the first law of motion?

- (A) A person running on a treadmill.
- (B) A person leaning forward when a car suddenly stops.
- (C) A person jumping off a diving board.
- (D) A person riding a bicycle.