

1. What is velocity?

- (a) - The rate at which an object changes its position in a specific direction
- (b) - The speed of an object
- (c) - The distance traveled by an object
- (d) - The force acting on an object

2. How is velocity different from speed?

- (a) - Velocity is the rate at which an object changes its position, while speed is the distance traveled by an object
- (b) - Velocity is a scalar quantity, while speed is a vector quantity
- (c) - Velocity is measured in kilometers per hour, while speed is measured in meters per second
- (d) - Velocity includes both speed and direction, while speed only refers to the rate of motion

3. Which of the following is an example of negative velocity?

- (a) - A car moving in the same direction as a reference point
- (b) - A car at rest
- (c) - A car moving at a constant speed
- (d) - A car moving in the opposite direction of a reference point

4. What is the formula to calculate velocity?

- (a) - $\text{Velocity} = \text{Speed} \times \text{Time}$
- (b) - $\text{Velocity} = \text{Displacement} / \text{Time}$
- (c) - $\text{Velocity} = \text{Acceleration} \times \text{Time}$
- (d) - $\text{Velocity} = \text{Distance} / \text{Time}$