

Question Paper

Topic 1: Mechanics

Q1. What is the formula to calculate speed?

Answer: $\text{Speed} = \text{Distance} / \text{Time}$

Explanation: Speed is calculated by dividing the distance traveled by an object by the time taken to travel that distance.

Q2. How is acceleration defined?

Answer: Acceleration is the rate of change of velocity.

Explanation: Acceleration is a vector quantity that represents the rate at which an object's velocity changes over time.