

Download Acceleration Questions And Answers

An ambulance is currently traveling at 15m/s, and is accelerating with a constant acceleration of 5 m/s. The ambulance is attempting to pass a car which is moving at a constant velocity of 30m/s. Earlier in Lesson 6, four kinematic equations were introduced and discussed. A useful problem-solving strategy was presented for use with these equations and two examples were given that illustrated the use of the strategy. Then, the application of the kinematic equations and the problem-solving strategy to free-fall motion was discussed and illustrated. If the speed of the car decreases, or decelerates, mathematically it is acceleration in the opposite direction. The formula for acceleration = $A = (V_f - V_0)/t$ and is measured in meters per second ². Here is a typical question: A car starts from standing top and in 10 seconds is travelling 20/meters per second. What is the acceleration? And these are not the only interesting question from these quizzes! You will also find out about the fact that an oscillating pendulum with velocity and acceleration marked, experiences both tangential and centripetal acceleration; or about circular motion, that is the constant speed along a circular path.