

## Laws of Motion - Set I



Name Class A car having an initial velocity of 12 meters An airplane originally at rest on a runway per second east slows uniformly to accelerates uniformly at 6.0 meters per 2 meters per second east in 4.0 seconds. second<sup>2</sup> for 12 seconds. During this The acceleration of the car during the nd interval, the airplane travels 4.0-second interval is A 72 m 2.5 m/s2 wes 2.5 m/s2 east 430 m 6.0 m/s2 west 6.0 m/s2 east A softball player leaves the batter's box, A football player kicks a ball with an initial 3 overruns first base by 3.0 meters, and then velocity of 25 meters per second at an returns to first base. Compared to the total angle of 53° above the horizontal. The distance traveled by the player, the magnitude vertical component of the initial velocity 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 magnitude, respectively? A zero velocity A acceleration and velocity B zero acceleration weight and force C zero potential energy C speed and time D zero kinetic energy D displacement and distance An object with an initial speed of 4.0 9 Which graph best represents the meters per second accelerates uniformly relationship between the kinetic energy at 2.0 meters per second2 in the direction of a moving object and its velocity? of its motion for a distance of 5.0 meters. What is the final speed of the object? A 6.0 m/s B 10 m/s C 14 m/s D 36 m/s



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