Numericals

Practice. Learn. Succeed

Sub : Science **Grade: IX** **Date: .....**

Name: ..... **ID No.....**

1. A body of mass 5 kg is moving with a velocity of 10 m/s. It is acted upon by a force 20 N in the direction of motion. What will be its velocity after 1 second?

2. For how long should a force of 100 N act on a body of mass 20 kg at rest so that it acquires a velocity of 100 m/s?

3. A truck starts from rest and moves down a hill with a constant acceleration. It travels a distance of 100 m in 5s. Find its acceleration. Find the force acting on it if the mass of the truck is 5 metric tonne.

4. A boy with mass 50 kg running at 5 m/s jumps on to a 20 kg trolley travelling in the same direction at 1.5 m/s. What is their common velocity?