

Numericals

Practice. Learn. Succeed

Sub : Science

Grade: IX

Date:

Name:

ID No.....

1. A cricket ball of mass 70 g moving with a velocity of m/s is stopped by a player in 0.5s. What is the force applied by the player to stop the ball?

2. A car of mass 1000 kg moving with a velocity of 45 km/h collides with a tree and comes to a stop in 5 s. What will be the force exerted by the car on the tree?

3. A bullet of mass 10 g is fired with a rifle. The bullet takes 0.003 s to move through its barrel and leaves it with a velocity of 300 m/s. What is the force exerted on the bullet by the rifle?

4. A boy weighing 30 kg is riding a bicycle weighing 50 kg. If the bicycle is moving at a speed of 9 km/h towards the west, find the linear momentum of the bicycle-boy system in SI units.
