



KALPAVRUKSHA MODEL SCHOOL

ASSIGNMENT

Class: IX

Sub: Physics

Date: 14.08.2021

Topic: Force and Laws of Motion

Complete the assignment questions given below.

1. Find the recoil velocity of a gun having mass equal to 5 kg, if a bullet of 25gm acquires the velocity of 500m/s after firing from the gun.
2. A bullet of 5 gm is fired from a pistol of 1.5 kg. If the recoil velocity of pistol is 1.5 m/s, find the velocity of bullet.
3. A boy of 50 kg mass is running with a velocity of 2 m/s. He jumps over a stationary cart of 2 kg while running. Find the velocity of cart after jumping of boy.
4. An object gets 50 second to increase the speed from 10m/s to 50m/s. If the mass of the object is 1000 kg, what force will be required to do so?
5. What will be the momentum of a stone having mass of 10 kg when it is thrown with a velocity of 2m/s?

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