

$$F=MA$$

$$F T= M \Delta V$$

1. A golf ball of .010 kg is hit by the club head with 400. N. and gets a velocity change of 200. m/sec. for how much time were they in contact?
2. A 1,100 kg car is going at 22. m/sec What force is needed to stop it in 20. seconds?
3. A 28 Newton force acts on a 100 kg object for 5 seconds. How much will the velocity change?
4. It takes 12 seconds of a 75 N force to stop an object that was going 30. m/sec Find the mass.
5. If we apply 85. N for 37 seconds, what is the change in momentum of the object?
6. If the object in problem five has a mass of 40,000 kg what is its velocity change?
7. The .25 kg base ball gets up to 40. m/sec because the pitcher pushed on it for 0.1 seconds, with what force does he pitch?
8. The crazy grasshopper pushes on the Honda Accord mass 1200 kg with his 0.01 Newtons of force. How much time will it take to reach a speed of 25 m/s?
9. 3000 Newtons of force act on a 3 GRAM rifle bullet for the .001 second that it is in the rifle barrel. what is the change in velocity?