**Question 1)** How much net force is required to accelerate a 1000 kg car at 4.00 m/s2?  
**Solution)** F=ma  
Given a=4.00 m/s2  
m=1000kg  
 F= 4000 N

**Question 2)** A body of mass 1 kg undergoes a change of velocity of 4m/s in 4s what is the force acting on it?  
**Solution)**  
Acceleration is given by a=change in velocity/Time taken  
So a=1 m/s2  
Now force is given by  
F=ma  
F=1 N

**Question 3)** A force of 1200 N acts on the surface of area 10 cm2 normally. What would be the thrust and pressure on the surface? **Given:**   
Force F = 1200 N, Area A = 10 cm2 = 10 ×10-4 m2 = 10-3 m2  
Thrust = Normal pressure = F = 1200 N  
Pressure P = F/A 1200N10−3m21200N10−3m2  
            = 1.2 ×× 106 N/m2