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**Ch 4.3 Newton’s Second Law -** Page 132- Practice Problems C – Newton’s Section Law

1. The net force on the propeller of a 3.2 kg model airplane is 7.0 N forward. What is the acceleration of the airplane?
2. The net force on a golf cart is 390 N north. If the cart has a total mass of 270 kg, what are the magnitude and direction of the cart’s acceleration?
3. A car has a mass of 1.50 x 103 kg. If the force acting on the car is 6.75 x 103 N to the east, what is the car’s acceleration?
4. A soccer ball is kicked with a force of 13.5 N accelerates at 6.5 m/s2 to the right. What is the mass of the ball?
5. A 2.0 kg otter starts from rest at the top of the muddy incline 85 cm long and slides down to the bottom in 0.50 s. What net force acts on the otter along the incline?