Unit 2 Study guide problems

1. If a person with a mass of 98 Kg was running with a velocity of 4.5 m/s what is his momentum?
2. If a car accelerated from 55 mi/hr to 16 mi/hr. in 3.2s how far did the car go while it was accelerating?
3. If one car had a mass of 3500 Kg traveling at a velocity of 55 mi/hr, collided with another car that was traveling 35 m/s, what would the mass of the 2nd vehicle be? (use the conservation of momentum, be sure velocity is in m/s)
4. If a boxer punching his opponent did it with an impulse of 245 N s and a time interval of .00215 s, how many Newtons was the force applied?
5. If an object fell for 45.5 s, how far did it fall?
6. If an object accelerated from 17.5 m/s to 25.7 m/s in 37.5 s, how far did it go?
7. If a force of 80 N created an acceleration of 57.8 m/s2 what is the object’s mass?