Unit 7 Problems II

1. **If something has a mass of 29.9Kg and a velocity of 1.520003 m/s, what is the momentum?**
2. **If a car had a momentum of 50 Kg m/s and a mass of 1.5 pounds, what is the velocity?**
3. **If a person with a mass of .8 Kg was running with a velocity of 29.5 m/s what is his momentum?**
4. **If car 1 (5000 Kg) traveling 14.5 m/s collided head on with car 2 (987 Kg) that was traveling 15.009 m/s, what is the total momentum?**
5. **If a rock that had a mass-producing a force due to gravity of 5 Kg and a height of 11.5 m, what is its potential energy?**
6. **If a car was traveling .200015 m/s with a mass of 59 kg, what is its kinetic energy?**
7. **If a diver had 34.95 j of potential energy, a height of 150 m, what is his mass?**
8. **If a football had 1.120 j of kinetic energy and a mass 6.511112 kg, what is its velocity?**
9. **If a person standing at the top of a hill had a mass of 8.9654 Kg at a height of 1.0008 m, what is his potential energy?**