Unit 6 Problems II

1. If a mass that required a .002 N force to move it 150 m, how much work was done?
2. If you performed 6.0025600 J of work by applying a force of 24.0025 N, how far did you move the object?
3. If a person used 25.001456 J of work to move an object a distance of .102015 m, what was the force that was applied?
4. If a person used 6 J of work to move an object a distance of .0006 m, what was the force that was applied?
5. If you performed 6 J of work in .0256325 s, how much power did you use?
6. If you used 8900 W of power to apply a force of 50 N a distance of .80001255 m, what is the time?
7. If a person used 160 J of work to produce 150 W of power, what is the time?
8. If an object had an initial velocity of 115m/s, a final velocity of 20 m/s in a time of 37s, what is its acceleration?
9. If you traveled 540 miles in 123.5 hours, what was your average speed?
10. If an object had an acceleration of 7.7 m/s2 , an initial velocity of 2.0023610 m/s and a final velocity of 20 m/s, what was the time of acceleration?
11. If you traveled at an average speed of 15 m/s for a time of 130s, what would the distance be?

\*\*Put the following on your periodic table if they are not there:

Power = work / time Work = Force x Distance Speed = Distance / Time

Acceleration = final velocity – initial velocity / time