1309 POWER PROBLEMS (10pts x 3 = 30pts)

- Write out all problems showing your math of conversions
- The power company charges you $0.14 kWr for all problems
- Box your final answer.
- Upload a picture of your answers to google classroom
- This will be graded for accuracy!!

1) What is the resistance of a 120W flood light running at 110v?
2) If your run this 120w flood light for 1hr, what would be the cost?
3) If you ran this flood light from 6pm to 6am for 30 days what would be the cost?
4) If you ran this flood light 6pm to 6am for an entire year (12hrs a day) what would be the cost?
5) You buy a deep freezer; the energy guide says it uses 252kWh a year. What are the watts per hour?
6) How much would it cost to run the deep freezer for 1 year?
7) How much would it cost to run deep freezer for 1 month?
8) You have a 1500w hair dryer and you use it for 20 minutes a day for 30 days. What does it cost you?
9) Your charger on your laptop draws 25watts an hour to completely charge it overnight (10hrs) how much did this cost?
10) You build a Tesla coil that uses 15,000V running at 30mA
    A) how many watts is it using?
    B) If watts remain the same, and you step the Volts up to 1,500,000, what must be the current?