Good Morning!

Please take out a calculator and a whiteboard.

On it, write the units of measurement that appear on an electric bill.

Account Number Billing	Date Next	Read Date
Account Number Billing 1234-567-8910 Jun 18,	2007 Jul	17, 2007

Service Provided to Joe Electric 1234 Main Street W BARNSTBL MA 02668

Account Summary	
Previous Bill Payment - Thank You Total Delivery Charges	115.30 -115.30 50.30
Delivery Svcs Balance	\$50.30

Electricity Used

Rate 32-Residential Nonheat - Annual Meter 2300459 Jun 15, 2007 Actual Read 4846 May 16, 2007 Actual Read - 4187 30 Day Billed Use 659

2300459	KMH
06/15	659
05/16	-112
04/17	509
03/16	538
02/14	539
01/15	783
12/14	714
11/14	479
10/17	435
09/18	552
08/17	1030
07/18	930
06/17	673

Cost of Electricity

Delivery Service	s				
Customer Charge					3.73
Distribution	.04825	×	659	KWH	31.80
Transition *	.01458	×	659	KMH	9.61
Transmission	.00482	×	659	KMH	3.18
Renewable Energy	.00050	X	659	KMH	0.33
Energy Conservation	.00250	×	659	KMH	1.65

Delivery Services Total 50.30

* PART OF WHAT WE COLLECT IN THE TRANSITION CHARGE IS OWNED BY CEC FUNDING LLC

c Residential Service - Current Period Detail Service 12/04/2012 to 01/07/2013 - 34				3 - 34 days	
r charge					\$7.17
on Charges	708	kWh	X	\$0.07660	54.23
gy Portfolio Standard	708	kWh	X	0.00070	0.50
ssion Charges	708	kWh	X	0.00960	6.80
on Charges	708	kWh	X	0.06190	43.83
« Adjustment					-0.11
Second Observes					6440 40

Current Charges \$112.42





Your Usage Profile

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	708	20.8	34	41
Last Month	532	16.1	33	44
Last Year	705	20.7	34	42

Avg kWh per Month	517
Total Annual kWh Usage	6,213

Peco Bill

P=IV, P=I^2R, P=V^2/R

P [watts = J/s]

Energy = Pt = IVt = $I^2Rt = V^2/R$

Energy (E) [Joules = J]

A refrigerator is plugged into a 120V plug and has an average power rating of 60W. How many joules of energy does it comsume in a month? Assume that the refrigerator only runs 1/3 of the time.

If Peco charges 9.5 cents per KWH, how much does it cost to run your refrigerator for a month?

5.346×10 85/mo

1 KWH= 3.6×1065

5.346x1085/2-11864 \$0.095 1 3.6x1095 11864

11.11

Mr. Breish uses a hair dryer for 2 minutes every morning. If a hair drier is 1400w, how much does it cost per month to use the hair dryer?

My electric bill:

You are going to create a spreadsheet for your electrical consumption and cost per month.

One person from each lab pair get a laptop and the other get a packet with the power consumptions for commom household appliances.

Open excell. Save the file as 3lastnamespeco example: 3breishhenselpeco

You and your lab partner will create a spreadsheet that illustrates the electrical use of a normal household.

You will list at least 10 household items on a spreadsheet.

You will then determine the total cost of opperating this household if 1KWH costs \$0.095. Not much right?

Columns:

A: Appliance name

B: Power rating W

C: Hours of use per day (think critically).

D: Joules per day

E: Joules per month

F: KWH per month

G: Cost per month | KWH= # 0.095

You can use excell to do the math for you.

If you want to use existing values that are already on the spreadsheet, you can manipulate them.

Once this function is done for one row, you can apply the math down an entire column.

See the example on school wires.

When finished, put the file in my drop folder.

Please work on the **last** quest assignment: due tonight at 10:00pm.

There is a quiz topics list on school wires. If you are not going to be in class tomorrow, please take a look at it and ask questions about quiz material.