

House Power Meters
measure Kw·hr

60w bulb × 1 hr
 $60w \cdot 1hr = 60w \cdot hr$

Power $\frac{60w \cdot 1hr = 60w \cdot hr}{10 \cdot 60w \text{ bulbs} \times 1hr}$

$600w \times 1hr = 600w \cdot hr$
 $600w \cdot hr = .6 Kw \cdot hr$

$1000w \cdot hr = 1 Kw \cdot hr$

Afraid of the Dark?
 Turn on 5 60w bulbs.
 (one for each corner, 1 for closet)

11pm - 7am = ~~8~~ 8 hrs

$300w \cdot 8hr$
 $2,400w \cdot hr = 2.4 Kw \cdot hr$

Electricity costs about
 14¢ per Kw·hr

So...

$2.4 Kw \cdot hr \times \left(\frac{14¢}{Kw \cdot hr}\right)$

34 cents

You!

you want to light your
 house with 8 60w bulbs
 and 4 100w bulbs for
 6 Hrs per night. What is
 your cost?

$480w + 400w = 880w$
 $880w \times 6hr$
 $= 5280w \cdot hr$
 $5.28 Kw \cdot hr$

$\frac{5.28 Kw \cdot hr \cdot 14¢}{Kw \cdot hr} = 74 \text{ cents}$

Your utility bill is
 \$260 this month.
 \$40 of that is for water
 \$15 is for sewage
 How many Kwhr did you
 use?

$$\text{cost} = \frac{\text{Kwhr} (\$.14)}{\text{Kwhr}}$$

$$\frac{\$205 (\text{Kwhr})}{\$.14} = \boxed{1464 \text{ Kwhr}}$$

- | | |
|--------------|--|
| Microwave | <u>chargers</u> |
| oven | Hair dryer |
| Fridge | Razors |
| stove | Router (computer) |
| Dishwasher | Games |
| Water heater | stereo |
| washer | Toaster |
| Dryer | coffee |
| TV | Freezer |
| A/C | Lights |
| Furnace | electric cookers
(crock pot) |
| Treadmill | Blender |
| | Pump |
| | Fans |
| | Printer |