Name:	Per
	Conversions Practice
	Practice Sheet #2
	Due:
	Use Conversion Technique to solve the following problems. SHOW ALL WORK for full credit. Include units in the answer.
1.	In Europe gas is sold by the liter. A liter of gas in Germany costs 1.62 Euros. Since there are four liters in a gallon, the cost of four liters would be the cost of a gallon, which is 6.48 Euros per gallon! The exchange rate of August 25, 2014 was 0.76 Euros = 1 US Dollar. How much does a gallon of gas in Germany cost in dollars?
	Known: 1 gallon x — = dollars (\$)
	Answer: \$8.5
2.	If you ordered 1.50 kg of sodium over the internet, how many pounds is this? 1.00 lb = 454 g.
3.	Answer: 3.30 li It took you 0.142875 days to finish your homework the other day. How many seconds is this?
	Answer: 12344.4 s
4.	If the ratios below are true, then determine how many karches are in 2.963 zots.

5 karches=3 weps

7 hax = 1 timp

6 timps= 3.5 weps

2.5 fips =1.0 zot

4 fips= 3 gruls

2 grul = 3 hax

e:Per	Name:
On average, cows are slaughtered for meat at the age of three years. The typical cow will give 200 kg of boneless beef (200. Kg beef/1 cow). During the cow's three year life, it will require 31,000 L for drinking and servicing of the stall, and 3.06 x 10 ⁶ L for producing the grains and grasses it eats. This is a total of 3.091 x 10 ⁶ L water/1 cow. How much water is therefore required to produce 1.0 kg of beef?	5.
Answer: 1.5 x 10 ⁴ l. On average chickens are slaughtered for meat at the age of ten weeks. The typical chicken will give 1.7 kg of boneless chicken meat (1.7 kg chicken meet/1 chicken). During the chicken's ten week life, it will require 30 L or water for drinking and servicing of the coop, and 6435 L of water for producing the grains it eats. This is a total of 6465 L of water / 1 chicken. How much water is therefore required to produce 1.0 kg of chicken?	6.
Answer: 3800 In the examples in the notes packet, we learned that an incandescent bulb would use 3.6 x 10 ⁹ J of energy in 10,000 hours. How many J of energy does this bulb use in 4.0 hours?	7.
Answer: 1.4 x 10 ⁶ . In the examples in the notes packet, we learned that a compact fluorescent light bulb (CFL) would use 1.2 x 10 ⁹ J of energy in 15,000 hours. How many J of energy does the CFL bulb use in 4.0 hours?	8.
Answer: 3.2×10^5 . According to recycling-revolution.com, Americans use about 2,500,000 plastic bottles every hour! These of course, end up in the trash and either go into a landfill or get recycled. How many bottles are used in America in 6 months?	9.

Answer: 1 x 10¹⁰ bottles!