Chemistry 51

## REVIEWQUESTIONS

Chapter 1

1. Identify each of the statements below as observation, hypothesis, experiment or conclusion:
a) Sally thinks she may be allergic to shrimp.
b) Yesterday, an hour after Sally ate a shrimp salad, she broke out in hives.
c) Today, Sally had some soup that contained shrimp, but she did not break out in hives.
d) Sally realizes that she does not have an allergy to shrimp.
2. Express each of the following numbers in scientific notation, with 3 significant figures:
a) 2900000
b) 0.005865
c) 0.000004563 $\qquad$ d) 410870
3. Solve each equation below for x :
d) $3 x-(-6)=12$
e) $\frac{4 x}{-12}=-8$
f) $3 x-4=24-x$
4. There are 36 carpenters in a crew. On a certain day, 29 were present. What percent showed up for work? (round to the nearest tenth)
5. A student answered 86 problems on a test correctly and received a grade $98 \%$. How many problems were on the test, if all the problems were worth the same number of points?
(Round to the nearest whole number)
