## 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. <a href="https://www.hypothesis">hypothesis</a>

b) Yesterday, an hour after Sally ate a shrimp salad, she broke out in hives. **observation** 

c) Today, Sally had some soup that contained shrimp, but she did not break out in hives.

observation

- 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 **2.90x10**<sup>6</sup> b) 0.005865 **5.87x10**<sup>-3</sup>

c) 0.000004563 <u>4.56x10</u>-6 d) 410870 <u>4.11x10</u>5

3. Solve each equation below for x:

3x + 6 = 12

d) 
$$3x - (-6) = 12$$
  $3x = 6$   $x = 2$ 

e)  $\frac{4x}{-12} = -8$   $\frac{4x = 96}{x = 24}$ 

f) 
$$3x-4=24-x$$
  $4x = 28$   $x = 7$ 

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)

$$\%$$
 worked =  $\frac{29}{36}$  x100 = 80.6%

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)

86 correct x 
$$\frac{100 \text{ problems}}{98 \text{ correct}} = 91 \text{ problems}$$