## Quiz One Chemistry 121/100 FGH

## Name\_\_\_\_\_

- 1. Convert the following numbers to scientific notation:
  - a. 0.0005621
  - b. 7700.0
  - c. 800.
- 2. How many significant figures are in each of the following numbers?
  - a. 1405.0
  - b. 6,000
  - c. 7,196,800
  - d. 9.00 X 10<sup>-3</sup>
- 3. Round the following numbers to three significant figures:
  - a. 25,880,000
  - b. 245.8472934975
  - c. 130,000,000
- 4. Carry out the following calculations and express the answer with the correct number of significant figures:
  - a. 34.9401 x 2.07 x 0.003189 =
  - b. 616.832 + 17.233 + 9198.6 =
  - C.  $1.89 \times 10^7 \times 2.14 \times 10^3 =$
  - d. 460.78 + 81.0 =

Explain the difference between the word pairs below by giving short definitions of each term:

a. theory, hypothesis

b. compound, element

- c. homogeneous, heterogeneous
- d. law, theory
- e. gas, solid

f. matter, mass