Questions on Definite and Multiple Proportions I

1) Consider the following table of data:

Compound	Mass Na	Mass Z	Formula
A	12	2.44	Na_3Z
B	3.45	.700	??
C	14	????	Na_3Z
D	25.0	30.47	??

a) Do the data for compounds A and B support that they are the same compound? Explain
b) For compound C, calculate the number of g of Z in the compound
c) Prove that compound D is **different** than compound A.
d) How many times more does **one Na** weigh than **one Z?**
e) If the mass of Na is 23 on the periodic table, what is the mass of Z on the PT?
f). Show that the data for compounds D and B satisfy the law of ***multiple proportions. This will be done in class. Do not do part f for Homework!!!***

2) Let's say you have two elements on the periodic table labeled D and E. How would you properly write the formulas for a compound with:
   a) One D
   b) Two E's
   c) Three D's and Four E's
   d) 

   e)