**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_ Date:\_\_\_Dimensional Analysis Homework**

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95. Calculate the number of moles in each of the following masses.

 c. 0.255 g of sulfur

 d. 850.5 g of zinc

96. Calculate the mass of each of the following amounts.

 c. 0.275 mol mercury

 d. 9.37 X 10-3 mol magnesium

97. Calculate the amount in moles in each of the following quantities.

 c. 5 700 000 000 atoms of lead

 d. 2.997 X 1025 atoms of vanadium

98. Calculate the number of atoms in each of the following amounts.

 c. 0.000 0002 mol helium

 d. 32.6 mol strontium

99. Calculate the number of atoms in each of the following masses.

 c. 0.697 g of gallium

 d. 0.000 000 0202 g of beryllium

100. Calculate the mass of the following numbers of atoms.

 c. 1.506 X 1024 atoms of argon

 d. 1.20 X 1025 atoms of helium