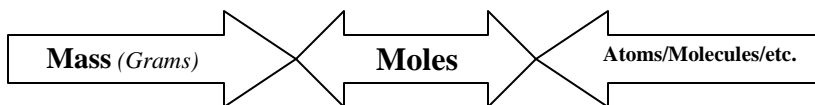


Name: _____ Section: _____
Mole Quiz Review Problems

Directions: Complete the following mole problems as a final preparation for your quiz. Be sure to show all of your work and to check the answers. If your answer is incorrect, it is important that you determine where you made a mistake.



Remember: I will not provide you with the “Mole Map” on your quiz.

1. How many atoms are in 0.75 moles of Manganese?

Answer: 4.52×10^{23} atoms of Mn

2. How many moles are in 26 grams of Oxygen?

Answer: 1.63 moles of O

3. How many moles are in 2.5×10^{22} atoms of Boron?

Answer: 0.04 or 4.15×10^{-2} moles of B

4. What is the mass (in grams) of 12 atoms of Uranium?

Answer: 4.74×10^{-21} grams of U

5. How many atoms of Chlorine would be present in a 57 gram sample?

Answer: 9.80×10^{23} atoms of Cl

6. What is the mass of 1.0×10^{12} molecules of P_4O_6 ? (**You must calculate the molar mass of P_4O_6 in order to figure out the answer!**)

Answer: 3.65×10^{-10} grams of P_4O_6