

1. What is the atomic weight of Magnesium (Mg) in amu if it has the following isotopic distribution:
  - 78.70 % of  $^{24}\text{Mg}$  with 23.985 amu
  - 10.13 % of  $^{25}\text{Mg}$  with 24.986 amu
  - 11.17 % of  $^{26}\text{Mg}$  with 25.983 amu
  
2. How many atoms of copper (Cu) in 2 g of Cu? Atomic weight of Cu is 63.546 g/mol, Avogadro number =  $6.023 \times 10^{23}$
  
3. Briefly cite the main differences between primary bonding (ionic, covalent, and metallic bonding) and give examples for each?