- 1. How many atoms are in .5 moles? a) 8.3 x10<sup>-25</sup> atoms
- b) 3 x10<sup>23</sup> atoms
- c) 1.2 x10<sup>24</sup> atoms
- d) 6.02 x10<sup>23</sup>atoms
- 2. How many grams are in 3.8 moles of Calcium?
- a) .095 grams
- b) 10.52 grams
- c) 6.02 x10<sup>23</sup> grams
- d) 152 grams
- 3. How many moles are in 87 grams of Magnesium?
- a) .27 moles
- b) 3.6 moles
- c) 2114.1 moles
- d) 1 mole
- 4. What is the molar mass of MgSO<sub>4</sub>?
- a) 120.3 grams
- b) 72.3 grams
- c) 64 grams
  d) 6.02x10<sup>23</sup> grams
- 5. How many grams are in .7 moles of MgSO4?
- a) .006 grams
- b) 171.9 grams
- c) 10 grams
- d) 84.21 grams

- 6. How many grams are in 3.5 moles of BeF<sub>2</sub>?
- a)164.5 grams
- b) .07 grams
- c) 3.5e26 grams
- d) 2.7e-22 grams
- 7. How many moles are in 52.5 grams of Na<sub>2</sub>O?
- A) 3255 moles
- B) 1.2 moles
- C) 1.24e24 moles
- D) .02 moles
- 8. How many moles are in 82 grams of CaO?
- a) .7 moles
- b) 8.8e23 moles
- c) 2.5e-24 moles
- d) 1.5 moles
- 9. How many formula units are in 37 grams of MgSO<sub>4</sub>?
- a. 2.2e25 formula units
- b.1.85e23 formula units
- c. 7.4e-21 formula units
- d. 1.9e24 formula units
- 10. What is the mass of 4.2e25 molecules of NO<sub>3</sub>?
- a) 69.8 grams
- b) 4325.6 grams
- c) 4.1e47 grams
- d) .9 grams