## **Moles Worksheet**

- 1) Define "mole".
- 2) How many moles are present in 34 grams of  $Cu(OH)_2$ ?  $349 \times \frac{100}{94.569} = 0.35$  wol
- How many moles are present in 2.45 x  $10^{23}$  molecules of CH<sub>4</sub>?  $\frac{2.45 \times 10^{23}}{6.02 \times 10^{23}} \times \frac{1.407}{6.02 \times 10^{23}} \times \frac{1.407}{6.02} \times \frac{1.40$
- 4.2 mol x 164,079 = 680 g
- 6) What is the molar mass of MgO? 34.30 + 16.00 = 40.33
- 7) How are the terms "molar mass" and "atomic mass" different from one another?

  CHOWIC: The total was at protons weakness elections were elections and the elections are protons. The total weight at a company
- 8) Which is a better unit for expressing molar mass, "amu" or "grams/mole"?

four Criswell

## **Mole Calculation Worksheet**

1) How many moles are in 15 grams of lithium?

188 x 1 mol = 2.1 gud Li

How many grams are in 2.4 moles of sulfur? 2)

2.4 mcls x 32.0695 = 77 95

3) How many moles are in 22 grams of argon?

220 Av x 1 nol = 0.38 nol Av

How many grams are in 88.1 moles of magnesium? 4)

88.18 mol x 34.30 has = 214 & mas

How many moles are in 2.3 grams of phosphorus? 5)

2.3 giv 1 not = 0.074 not P

How many grams are in 11.9 moles of chromium? 6)

11. Ce not x 31,000 Cr = 610, 9 Cr

7)

How many moles are in 9.8 grams of calcium?

Q,  $89 \times \frac{1000}{40.07} = 9.84$  wol Co.

8) How many grams are in 238 moles of arsenic?

238 mol x 74.028 = 17800 8 43

What are the molecular weights of the following compounds?

9)

10) P 60,81 = 60.6 = # 6

1 NO = 22,98 = 39,99 g

1 NO = 46,00 = 39,99 g

1 NO = 46,00 = 39,99 g

1 NO = 30,00 g

1 NO = 30,00 g

- 13) Mn2Se7 2 Mn = 100.86 = 662.589 75e = 552.72
- act = 40.01 11)
- $(NH_4)_2SO_4$ 210 = 14.00 8 H = 8.08 = 118.149