Mole Calculation Worksheet

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

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

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

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

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

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

7) How many moles are in 9.8 grams of calcium?

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

What are the molecular weights of the following compounds?

9) NaOH

10) H_2O

11) $MgCl_2$

12) H_3PO_4

13) Mn_2Se_7

14) $(NH_4)_2SO_4$

15) How many grams are in 4.5 moles of sodium fluoride, NaF?

16) How many moles are in 98.3 grams of aluminum hydroxide, $Al(OH)_3$?

17) How many grams are in 0.02 moles of beryllium iodide, BeI_2?

18) How many moles are in 68 grams of copper (II) hydroxide, $Cu(OH)_2$?

19) How many grams are in 3.3 moles of potassium sulfide, K_2S?

20) How many moles are in 1.2×10^3 grams of ammonia, NH_3?

21) How many grams are in 2.3×10^{-4} moles of calcium phosphate, $Ca_3(PO_3)_2$?

22) How many moles are in 3.4×10^{-7} grams of silicon dioxide, SiO_2?

23) How many grams are in 1.11 moles of manganese sulfate, $Mn_3(SO_4)_7$?