Chemistry Worksheet

Name: _____

Mole Calculations

Period: _____ **Date:** _____

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

9) How many moles are in 30 grams of lithium?

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

10) How many atoms are in 12.4 moles of tin?

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

11) How many atoms are in 22.7 grams of radon?

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

12) How many atoms are in 88.19 moles of tungsten?

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

13) How many grams are in 2.23×10^{24} atoms of iron?

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

14) How many moles are in 1.19×10^{23} atoms of sodium?

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

15) What is the mass of 19.82×10^{23} atoms of gold?

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

16) How many moles is 23.8×10^{23} atoms of silver?

| 4.3 | 5.309×10^{25} | 6.486×10^{2} | 2.2 | 5.5×10^{-1} | 6.19×10^{2} | 2.4×10^{-1} | 7.46×10^{24} |
| 3.95 | 2.07×10^{2} | 7.7×10^{1} | 7.4×10^{-2} | 1.78×10^{4} | 2.14×10^{3} | 6.16×10^{22} | 1.98×10^{-1} |