Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PRACTICE QUIZ: Unit 3, Quiz 1**

**Part 1. Atoms 🡪Moles**

1. How many atoms are in 0.75 moles of Carbon?

|  |  |
| --- | --- |
| **Description** | **Grade** |
| Given in correct place | \_\_\_\_\_/1 |
| Uses correct conversion factor | \_\_\_\_\_/1 |
| Conversion factor in correct order | \_\_\_\_\_/1 |
| Answer | \_\_\_\_\_/1 |
| Correct Sig Figs | \_\_\_\_\_/.5 |
| Correct Units | \_\_\_\_\_/,5 |
| **TOTAL** | **\_\_\_\_\_/5** |

2. If you have 1.75 x 1024 molecules of baking soda (NaHCO3), how many moles of baking soda do you have?

|  |  |
| --- | --- |
| **Description** | **Grade** |
| Given in correct place | \_\_\_\_\_/1 |
| Uses correct conversion factor | \_\_\_\_\_/1 |
| Conversion factor in correct order | \_\_\_\_\_/1 |
| Answer | \_\_\_\_\_/1 |
| Correct Sig Figs | \_\_\_\_\_/.5 |
| Correct Units | \_\_\_\_\_/,5 |
| **TOTAL** | **\_\_\_\_\_/5** |

**Part 2. Grams 🡪 Moles**

3. You are doing an experiment that requires 17.8 grams of hydrochloric acid (HCl). How many moles of HCl is this?

|  |  |
| --- | --- |
| **Description** | **Grade** |
| Given in correct place | \_\_\_\_\_/1 |
| Uses correct conversion factor | \_\_\_\_\_/1 |
| Conversion factor in correct order | \_\_\_\_\_/1 |
| Answer | \_\_\_\_\_/1 |
| Correct Sig Figs | \_\_\_\_\_/.5 |
| Correct Units | \_\_\_\_\_/,5 |
| **TOTAL** | **\_\_\_\_\_/5** |

4. What is the mass of 1.2 moles of bleach, NaClO?

|  |  |
| --- | --- |
| **Description** | **Grade** |
| Given in correct place | \_\_\_\_\_/1 |
| Uses correct conversion factor | \_\_\_\_\_/1 |
| Conversion factor in correct order | \_\_\_\_\_/1 |
| Answer | \_\_\_\_\_/1 |
| Correct Sig Figs | \_\_\_\_\_/.5 |
| Correct Units | \_\_\_\_\_/,5 |
| **TOTAL** | **\_\_\_\_\_/5** |

**Part 3. Grams 🡪 Atoms**

5. If you add 14.0 grams of phosphorus to a reaction, how many atoms of phosphorus did you add?

|  |  |
| --- | --- |
| **Description** | **Grade** |
| Given in correct place | \_\_\_\_\_/1 |
| Uses correct conversion factors | \_\_\_\_\_/1 |
| Conversion factors in correct order | \_\_\_\_\_/1 |
| Answer | \_\_\_\_\_/1 |
| Correct Sig Figs | \_\_\_\_\_/.5 |
| Correct Units | \_\_\_\_\_/,5 |
| **TOTAL** | **\_\_\_\_\_/5** |

6. Miss Miller measures 7.2 x 1023 molecules of laughing gas (N2O), how many grams of laughing gas is this?

|  |  |
| --- | --- |
| **Description** | **Grade** |
| Given in correct place | \_\_\_\_\_/1 |
| Uses correct conversion factors | \_\_\_\_\_/1 |
| Conversion factors in correct order | \_\_\_\_\_/1 |
| Answer | \_\_\_\_\_/1 |
| Correct Sig Figs | \_\_\_\_\_/.5 |
| Correct Units | \_\_\_\_\_/,5 |
| **TOTAL** | **\_\_\_\_\_/5** |

***ELEMENTS PRACTICE: Do you know them??*** (Do this **without** your PT)

|  |  |
| --- | --- |
| **Element Names** | **Element Symbols** |
| 1. Al \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. Ge \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4. O \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5. Cl \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6. Ag \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  7. Li \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  8. Mg \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  9. Co \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  10. As \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Nitrogen \_\_\_\_\_\_\_\_\_\_\_\_  2. Potassium \_\_\_\_\_\_\_\_\_\_\_\_  3. Iron \_\_\_\_\_\_\_\_\_\_\_\_  4. Sodium \_\_\_\_\_\_\_\_\_\_\_\_  5. Sulfur \_\_\_\_\_\_\_\_\_\_\_\_  6. Neon \_\_\_\_\_\_\_\_\_\_\_\_  7. Phosphorus \_\_\_\_\_\_\_\_\_\_\_\_  8. Bromine \_\_\_\_\_\_\_\_\_\_\_\_  9. Beryllium \_\_\_\_\_\_\_\_\_\_\_\_  10. Lead \_\_\_\_\_\_\_\_\_\_\_\_ |