**Chem 1013: mini-quiz # 13: mole-mass-count word problem A 4 pts March 4**

Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Circle all the compound formulas below that are empiric formulas. (2 pts)

C4H8O2 P5Cl25N7 C3H10 O5 Mn4O8 C2H6

2. A compound contains 48.648% C , 8.108 % H and 43.24% O. What is the compound’s empiric formula ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| element | grams | GAW (g/mol) |  |  |  |
| C |  | 12 |  |  |  |
| H |  | 1 |  |  |  |
| O |  | 16 |  |  |  |

**Chem 1013: mini-quiz # 13: mole-mass-count word problem B 4 pts March 4**

Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Circle all the compound formulas below that are empiric formulas. (2 pts)

C4H8O P5Cl25N10 C3H10 O2 Mn4O8 C2H6

2. A compound contains 24.324 g C , 4.054 g H and 21.62 O. What is the compound’s empiric formula ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| element | grams | GAW (g/mol) |  |  |  |
| C |  | 12 |  |  |  |
| H |  | 1 |  |  |  |
| O |  | 16 |  |  |  |