**Basic Atomic Structure Practice 1: *Name:***

**Protons, Neutrons, and Electrons Practice**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Atomic symbol | Atomic number | Protons (Atomic Number) | Neutrons (Mass Number – Atomic Number) | Electrons (Same as protons if neutral atom) | Mass Number (This is the atomic mass ROUNDED to the nearest whole number) | Atomic Mass |
| B | 5 | 5 | 6 | 5 | 11 | 10.81 |
|  | 11 |  |  |  | 24 |  |
|  |  | 31 | 37 |  |  |  |
|  |  |  |  | 39 | 89 |  |
|  |  |  | 35 |  |  | 63.5 |
|  |  | 43 |  |  | 100 |  |
| Pb |  |  |  |  | 207 |  |
|  |  |  | 102 | 70 |  |  |
|  |  |  |  |  | 225 | 227 |
| Mo |  |  | 53 |  |  |  |
|  | 81 |  |  |  | 206 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Atomic symbol | Atomic number | Protons (Atomic Number) | Neutrons (Mass Number – Atomic Number) | Electrons (Same as protons if neutral atom) | Mass Number (This is the atomic mass ROUNDED to the nearest whole number) | Atomic Mass |
|  | 100 |  | 159 |  |  |  |
| No |  |  |  |  | 261 |  |
| Tm |  |  |  |  | 170 |  |
|  |  | 106 | 159 |  |  |  |
|  |  |  |  |  | 22 | 20.2 |
|  |  |  |  | 19 | 39 |  |
|  | 2 |  | 2 |  |  |  |
| Ti |  |  |  |  | 49 |  |
|  |  |  | 30 |  |  | 55.8 |
|  |  | 4 | 5 |  |  |  |
|  |  |  |  | 16 | 32 |  |
| V |  |  | 28 |  |  |  |

**Solutions for the Protons, Neutrons, and Electrons:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Symbol | Atomic # | Protons | Neutrons | Electrons | mass # | A.Mass |
| B | 5 | 5 | 6 | 5 | 11 | 10.8 |
| Na | 11 | 11 | 13 | 11 | 24 | 23.0 |
| Ga | 31 | 31 | 37 | 31 | 68 | 69.7 |
| Y | 39 | 39 | 50 | 39 | 89 | 88.9 |
| Cu | 29 | 29 | 35 | 29 | 64 | 63.5 |
| Tc | 43 | 43 | 57 | 43 | 100 | (98) |
| Pb | 82 | 82 | 125 | 82 | 207 | 207 |
| Yb | 70 | 70 | 102 | 70 | 172 | 173 |
| Ac | 89 | 89 | 136 | 89 | 225 | 227 |
| Mo | 42 | 42 | 53 | 42 | 95 | 95.9 |
| Tl | 81 | 81 | 125 | 81 | 206 | 204.4 |
| Fm | 100 | 100 | 159 | 100 | 259 | 257 |
| No | 102 | 102 | 159 | 102 | 261 | 259 |
| Tm | 69 | 69 | 101 | 69 | 170 | 169 |
| Sg | 106 | 106 | 159 | 106 | 265 | 263 |
| Ne | 10 | 10 | 12 | 10 | 22 | 20.2 |
| K | 19 | 19 | 20 | 19 | 39 | 39.1 |
| He | 2 | 2 | 2 | 2 | 4 | 4.00 |
| Ti | 22 | 22 | 27 | 22 | 49 | 47.9 |
| Fe | 26 | 26 | 30 | 26 | 56 | 55.8 |
| Be | 4 | 4 | 5 | 4 | 9 | 9.01 |
| S | 16 | 16 | 16 | 16 | 32 | 32.1 |
| V | 23 | 23 | 28 | 23 | 51 | 50.9 |