**Atoms: Atomic Structure and Isotopes Quiz 1a**

Please show work where necessary!

/5

1. Complete the following table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Nuclear Notation** | **# of Protons** | **# of Neutrons** | **# of Electrons** | **Net Charge** |
|  |  |  |  |  |
|  | 16 | 18 | 18 |  |
|  |  |  |  |  |

1. There are 2 isotopes of copper that occur naturally: Copper-63 and Copper-65. The Copper-63 atoms have a mass of 62.929601 amu and the Copper-65 atoms have a mass of 64.927794 amu. **What is the percent natural abundance for each isotope?** *Answer to TWO DECIMAL PLACES.*

Answers:

1. Completes the following table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Nuclear Notation** | **# of Protons** | **# of Neutrons** | **# of Electrons** | **Net Charge** |
|  | 6 | 7 | 6 | 0 |
|  | 16 | 18 | 18 | -2 |
|  | 37 | 50 | 36 | +1 |

1. See Below.

