**Atoms: Atomic Structure and Isotopic Abundance: Quiz 1b**

Please show work where necessary!

/5

1. Completes the following table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Nuclear Notation** | **# of Protons** | **# of Neutrons** | **# of Electrons** | **Net Charge** |
|  |  |  |  |  |
|  | 50 | 71 | 54 |  |
|  |  |  |  |  |

1. **What is the atomic mass of hafnium** if, out of every 100 atoms, 5 have a mass of 176, 19 have a mass of 177, 27 have a mass of 178, 14 have a mass of 179, and 35 have a mass of 180?*Answer to* **TWO DECIMAL PLACES***.*

Answers:

1. Completes the following table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Nuclear Notation** | **# of Protons** | **# of Neutrons** | **# of Electrons** | **Net Charge** |
|  | 8 | 10 | 8 | 0 |
|  | 50 | 71 | 54 | -4 |
|  | 26 | 31 | 23 | +3 |

1. See Below.

