**How to calculate the number of protons, neutrons, and electrons in an atom:**

These four bits of information are found in every periodic table. Can you label what each is?

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 **You need to know and use these rules to complete the table below**

The number of Protons = Atomic Number

The number of Electrons = the number of protons (the atomic number)

The number of Neutrons = the Mass Number minus the Atomic Number

Use the periodic table to find the numbers of protons, neutrons, and electrons for atoms of the following elements.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  Name of Element  | Symbol of Element  | **Atomic Number**  | **Mass****Number** |  Protons  | Neutrons  |  Electrons   |
| Boron  | B  | 5 | 11 | 5  | 6  | 5  |
| Sodium  |   | 11  | 23 |   |   |   |
|   | Y  |  | 89  |   |   | 39  |
| Copper  |   | 29  | 63 |   |  |   |
|   | Tc  |  | 98  | 43  |   |   |
|   | Pb  | 82 | 207  |   |   |   |
| Thallium  |   | 81 | 204  |   |   |   |
|   | H  | 1  | 1  |   | 0  |   |
| Carbon  |   | 6 |   |   |   |   |
|   | N  |   |   | 7  |   |   |
|   | Ba  |   | 137  |   |   | 56  |
| Calcium  |   |   |   |   |   |   |
|   | Si  |   |   |   |   | 14  |
| Argon  |   |   | 40 |   |   |   |
|   | Mg  |   |   | 12  |   | 12  |

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