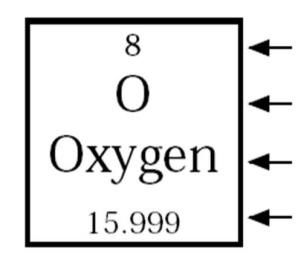
**How to calculate the number of protons, neutrons, and electrons in an atom:**

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)

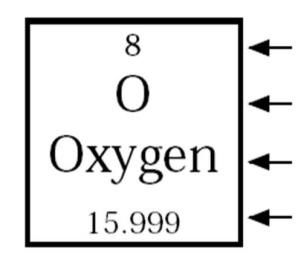
The number of Neutrons = the Mass Number minus the Atomic Number

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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| Argon |  |  | 40 |  |  |  |
|  | Mg |  |  | 12 |  | 12 |