# Protons, Neutrons, and Electrons Practice Worksheet

Calculating the number of each particle in an atom:

# Protons = Atomic Number

# Electrons = Protons

# Neutrons = Atomic Mass – Atomic Number OR Big # - Small #



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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of Element | Element Symbol | Mass Number | AtomicNumber | Protons | Neutrons | Electrons |
| Boron | B | 11 | 5 | 5 | 6 | 5 |
| Oxygen |  | 16 | 8 |  |  |  |
|  | Y | 89 |  |  |  | 39 |
| Copper |  |  | 29 |  | 35 |  |
|  | Tc | 98 |  | 43 |  |  |
|  | Pb | 207 |  |  |  |  |
| Thallium |  | 204 | 81 |  |  |  |
|  | H |  |  |  | 0 |  |
| Carbon |  | 12 |  |  |  |  |
|  | N |  |  | 7 |  |  |
|  | Ba |  |  |  |  | 56 |
| Calcium |  |  |  |  |  |  |
|  | Si |  |  |  |  | 14 |
| Argon |  |  | 18 |  |  |  |
|  | Mg |  |  | 12 |  | 12 |

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| --- | --- | --- | --- | --- | --- | --- |
| Name of Element | Element Symbol |  Mass Number  | AtomicNumber |  Protons  |  Neutrons  |  Electrons  |
| Lithium | Li |  |  |  |  | 3 |
| Sodium |  | 23 | 11 |  |  |  |
| Gallium |  |  |  | 31 | 39 |  |
|  | K | 39 |  |  |  | 19 |
| Phosphorus |  |  | 15 |  | 16 |  |
|  | S | 32 |  | 16 |  |  |
|  | Cl | 35 |  |  |  |  |
| Ytterbium |  |  |  |  | 103 | 70 |
|  | Ac | 227 |  | 89 |  |  |
|  | Mo |  |  |  | 54 |  |
| Mercury |  | 201 | 80 |  |  |  |
|  | Fm |  | 100 |  | 157 |  |
|  | No | 259 |  |  |  |  |
|  | Ne |  |  |  | 10 |  |
| Helium |  | 4 |  |  |  |  |
|  | F |  |  | 9 |  |  |
|  | Fe |  |  |  |  | 26 |
|   | Al  |   |   | 13 |   | 13 |
|  |  |  |  |  |  |  |
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