

Atoms and Ions Worksheet

Complete the table with the appropriate information.

| Ion | Symbol | Atomic Number | Mass Number | Protons | Electrons | Neutrons |
|-----------|--------|---------------|-------------|---------|-----------|----------|
| Iodine | | | | | | |
| Chlorine | | | | | | |
| Hydrogen | | | | | | |
| Bromine | | | | | | |
| Boron | | | | | | |
| Oxygen | | | | | | |
| Nitrogen | | | | | | |
| Aluminum | | | | | | |
| Iron | | | | | | |
| Copper | | | | | | |
| Copper | | | | | | |
| Fluorine | | | | | | |
| Magnesium | | | | | | |
| Lead | | | | | | |
| Lead | | | | | | |

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Answers

| Ion | Symbol | Atomic Number | Mass Number | Protons | Electrons | Neutrons |
|-----------|-----------|---------------|-------------|---------|-----------|----------|
| Iodine | I^- | 53 | 127 | 53 | 74 | 54 |
| Chlorine | Cl^- | 17 | 35 | 17 | 18 | 18 |
| Hydrogen | H^+ | 1 | 1 | 1 | 0 | 0 |
| Bromine | Br^- | 35 | 81 | 35 | 46 | 36 |
| Boron | B^{3+} | 5 | 11 | 5 | 6 | 2 |
| Oxygen | O^{2-} | 8 | 16 | 8 | 8 | 10 |
| Nitrogen | N^{3-} | 7 | 14 | 7 | 7 | 10 |
| Aluminum | Al^{3+} | 13 | 27 | 13 | 14 | 10 |
| Iron | Fe^{2+} | 26 | 56 | 26 | 30 | 24 |
| Copper | Cu^+ | 29 | 63 | 29 | 34 | 28 |
| Copper | Cu^{2+} | 29 | 63 | 29 | 34 | 27 |
| Fluorine | F^- | 9 | 19 | 9 | 10 | 10 |
| Magnesium | Mg^{2+} | 12 | 24 | 12 | 12 | 10 |
| Lead | Pb^{2+} | 82 | 207 | 82 | 125 | 80 |
| Lead | Pb^{4+} | 82 | 207 | 82 | 125 | 78 |