

assume a neutral atom

You can become more familiar with the atomic structure of some common substances by completing the chart below. For each substance, you have been given enough information to fill in all the blanks.

| Substance | Symbol | Atomic Number | (p+n)<br>Mass Number | Number of Protons | Number of Neutrons | Number of Electrons |
|-----------|--------|---------------|----------------------|-------------------|--------------------|---------------------|
| Helium    | He     | 2             | 4                    | 2                 | 2                  | 2                   |
| Magnesium | Mg     | 12            | 24                   | 12                | 12                 | 12                  |
| Zinc      | Zn     | 30            | 65                   | 30                | 35                 | 30                  |
| Bromine   | Br     | 35            | 80                   | 35                | 45                 | 35                  |
| Aluminum  | Al     | 13            | 27                   | 13                | 14                 | 13                  |
| Uranium   | U      | 92            | 238                  | 92                | 146                | 92                  |
| Sodium    | Na     | 11            | 23                   | 11                | 12                 | 11                  |
| Krypton   | Kr     | 36            | 84                   | 36                | 48                 | 36                  |
| Calcium   | Ca     | 20            | 40                   | 20                | 20                 | 20                  |
| Silver    | Ag     | 47            | 108                  | 47                | 61                 | 47                  |

# Atomic Structure Guided Practice Problems Answer Key

**Siddappa N.Byrareddy**



## **Atomic Structure Guided Practice Problems Answer Key:**

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