Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_\_ Date:\_\_\_\_ **Atomic Structure Practice**

**Questions # 1-4:** Complete the table. All atoms are **neutral.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Nuclear symbol** | **Name** | **Atomic #** | **Mass**  **#** | **# Protons** | **# Neutrons** | **# Electrons** |
| 1 |  |  |  |  | 19 | 20 |  |
| 2 |  |  |  | 51 |  |  | 23 |
| 3 |  |  |  | 56 |  | 30 |  |
| 4 |  |  |  | 11 |  | 6 |  |

**Questions #5-6**: Complete the table. All atoms are **neutral**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Nuclear Symbol** | **Hyphen Notation** | **# Protons** | **# Neutrons** | **# Electrons** |
| 5 | 40  Ca  20 |  |  |  |  |
| 6 | 84  Kr  36 |  |  |  |  |

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_\_ Date:\_\_\_\_ **Atomic Structure Practice**

**Questions # 1-4:** Complete the table. All atoms are **neutral.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Nuclear symbol** | **Name** | **Atomic #** | **Mass**  **#** | **# Protons** | **# Neutrons** | **# Electrons** |
| 1 |  |  |  |  | 19 | 20 |  |
| 2 |  |  |  | 51 |  |  | 23 |
| 3 |  |  |  | 56 |  | 30 |  |
| 4 |  |  |  | 11 |  | 6 |  |

**Questions #5-6**: Complete the table. All atoms are **neutral**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Nuclear Symbol** | **Hyphen Notation** | **# Protons** | **# Neutrons** | **# Electrons** |
| 5 | 40  Ca  20 |  |  |  |  |
| 6 | 84  Kr  36 |  |  |  |  |

**Questions # 7-9**: Complete the table. All atoms are **neutral.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Hyphen**  **notation** | **Nuclear Symbol** | **# Protons** | **# Neutrons** | **# Electrons** |
| 7 | Bromine-81 |  |  |  |  |
| 8 | Cobalt-60 |  |  |  |  |
| 9 | Barium-137 |  |  |  |  |

**Questions #10- 15:** Complete the table. All **atoms (ions**) have a **charge**.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Ion Symbol** | **Name of Element** | **# Protons** | **# Electrons** |
| 10 | Cu**3+** |  |  |  |
| 11 | K**+** |  |  |  |
| 12 |  |  | 53 | 54 |
| 13 |  | Silver |  | 46 |
| 14 | Cl**-** |  |  |  |
| 15 | O**2-** |  |  |  |

**Questions # 7-9**: Complete the table. All atoms are **neutral.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Hyphen**  **notation** | **Nuclear Symbol** | **# Protons** | **# Neutrons** | **# Electrons** |
| 7 | Bromine-81 |  |  |  |  |
| 8 | Cobalt-60 |  |  |  |  |
| 9 | Barium-137 |  |  |  |  |

**Questions #10- 15:** Complete the table. All **atoms (ions**) have a **charge**.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Ion Symbol** | **Name of Element** | **# Protons** | **# Electrons** |
| 10 | Cu**3+** |  |  |  |
| 11 | K**+** |  |  |  |
| 12 |  |  | 53 | 54 |
| 13 |  | Silver |  | 46 |
| 14 | Cl**-** |  |  |  |
| 15 | O**2-** |  |  |  |