**Groups and Periods**

Determine the group and period of each element.

Reminder: Groups are vertical (up and down) and periods are horizontal (side to side).

|  |  |  |
| --- | --- | --- |
| ***Element*** | ***group*** | ***period*** |
| O |  |  |
| Fe |  |  |
| H |  |  |
| Mg |  |  |
| Cl |  |  |
| Ar |  |  |
| V |  |  |
| B |  |  |
| Al |  |  |
| Cr |  |  |
| As |  |  |
| Ge |  |  |
| Kr |  |  |
| Ca |  |  |
| Cu |  |  |
| N |  |  |
| C |  |  |
| Ga |  |  |
| Be |  |  |
| Ni |  |  |
| F |  |  |
| S |  |  |
| P |  |  |
| Li |  |  |
| Mn |  |  |

**Properties of Metals, Nonmetals and Metalloids**

Identify whether the following are describing metals, nonmetals, or metalloids.

1. luster \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. brittle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. gases \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. majority of elements \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. exist in all three states of matter \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. ductile \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. semiconductors \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. all are solids \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. malleable \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. contains noble gases \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_