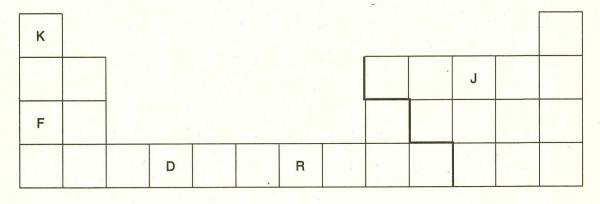
## **Interpreting the Periodic Table**

Examine the hypothetical periodic table shown below. Use this periodic table to answer the questions that follow.



- 1. Which pair of elements has the same number of valence electrons?
- 2. Which pair of elements is in the same period?
- 3. Which pair of elements is in the same family?
- 4. Which element has the smallest atomic number?
- 5. Which elements would be classified as metals?
- **6.** If the atomic number of Element D is 20, then what is the atomic number of element R?

## **Identifying Substances**

Complete the chart by first identifying each of the substances by name. Then describe each substance by placing a check in the appropriate box.

Substance	Name	Element	Compound	Symbol	Formula	Atom	Molecule
0			*				
O <sub>2</sub>	7.						
Н							
H <sub>2</sub>							
С							
СО	1						
Al							
NH <sub>3</sub>				v			
Cl <sub>2</sub>							
Au							
CO <sub>2</sub>		,					
Ag						× * =	
Fe						,	14.17 15
H₂O							
Hg							