

## Identifying Unknown Elements

Use the periodic table to identify the elements described in the statement below. Write both the element name and symbol on the line provided.

- \_\_\_\_\_ 1. This element is in the same family as lead and has fewer protons than sodium.
- \_\_\_\_\_ 2. This element has an atomic number that is one greater than platinum.
- \_\_\_\_\_ 3. This element has the most protons of any element in group 15.
- \_\_\_\_\_ 4. This element has more than 50 but less than 75 protons, and it is in Group 17.
- \_\_\_\_\_ 5. This Group 2 element has fewer protons than bromine but more protons than sulfur.
- \_\_\_\_\_ 6. This element has the lowest atomic number of Group 16 elements.
- \_\_\_\_\_ 7. This element has an atomic number that is double the atomic number of silicon.
- \_\_\_\_\_ 8. This element has more valence electrons than oxygen, fewer valence electrons than neon, more protons than sodium but fewer protons than argon.
- \_\_\_\_\_ 9. This element has an atomic number lower than that of aluminum and one less valence electron than the Group 16 elements.
- \_\_\_\_\_ 10. This element is in Group 1 and has a higher atomic number than chlorine but a lower atomic number than bromine.

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

### Interpreting the Periodic Table

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

K													
F													
			D				R						

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 group?

\_\_\_\_\_

4. Which element has the smallest atomic number?

\_\_\_\_\_

5. Which element(s) would be classified as a metal?

\_\_\_\_\_

6. If the atomic number of Element D is 20, what is the atomic number of Element R?

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