

Post-Break Review  
Chemistry  
2 points

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hour: \_\_\_\_\_

1) How many elements are there on the periodic table? \_\_\_\_\_

2) In what order are the elements on the periodic table? \_\_\_\_\_

\_\_\_\_\_

3) What are the four pieces of information in each square on the periodic table? \_\_\_\_\_

\_\_\_\_\_

4) Draw any square of the periodic table. Label the four parts.

5) What is an orbital diagram? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6) What is an electron configuration? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7) (a) Lewis dot diagrams are used to represent which electrons in an atom? \_\_\_\_\_

\_\_\_\_\_

(b) What is the maximum number of Lewis dots that can be shown on a diagram? \_\_\_\_\_

(c) How many dots can be on each side of a Lewis dot diagram? \_\_\_\_\_

(d) How can you tell which electrons are valence electrons when looking at an orbital diagram or electron configuration? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- 8) For the element **bromine**, list its number of electrons, draw its orbital diagram (arrows!), write out its electron configuration, circle the valence electrons, and draw the Lewis dot diagram:
- 9) For the element **protactinium**, list its number of electrons, draw its orbital diagram (arrows!), write out its electron configuration, circle the valence electrons, and draw the Lewis dot diagram: