## Review - Periodicity Quiz

1) Who is credited for the organization of the periodic table?

Mendeleev and Moseley

2) Summarize the modern Periodic Law.

. Elements arranged by atomic humber

· properties repeat

3) Where on the periodic table are the periods located?

ro-> 67

4) Where on the periodic table are the families located?

column I la same as graps

5) Where on the periodic table are the groups located?

Column I La same as families

6) Name each of the following families found on the periodic table.

IA: AIKali Meto VA: Mittingen Good

IIA: AIKaline Earn Metal VIA: 6x3gm Gras

IIIA: Boron Group VIIA: Halogon

IVA: Carbon Gro-0 VIIIA: Noble Good

7) Name a non-metal in group IVA:

8) Name a metal in group IVA: T.h - Sn or Lead - Pb

9) Summarize why elements in the same family have similar behaviors.

Som # of valence electrons

reason for your decision.
a) Si or Ge Reason: Mare Shells
b) Se or Br Reason: Br has more + , pulling shells in
c) O <sup>-2</sup> or (F) Reason: More shell
d) Br or Br Reason: e- added, more requision (like charges regal)
e) Rb+ or Br Reason: e added, here requision 320+ 350+
11) Indicate the column number to answer the following:
a) What family of elements is most likely to form +2 ions? Alkalie Earn Metals (IIA)
b) What family of elements is given the name the Carbon group?
c) What family of elements is given the name the Alkali Metals?
d) What family of elements would react with fluorine to produce compounds with the formula "X"F <sub>3</sub> ?
12) Circle the most reactive element in each group. Give a reason for your decision.
a) Cs Ba TI Reason: only reads to lose 15 (other, 2 and 3)
b) At Po Bi Reason: South South State Stat
c) Sr Ba (Ra) Reason: An wort to love 2000 Ra love the represt c-2 biggest, where e
fartest any from miles

10) In each of the following pairs, circle the one that would have the larger radius. Give a