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Ionic bonding practice

How many valence electrons do each of the following elements have?

- 1) carbon _____
- 2) selenium _____
- 3) xenon _____
- 4) potassium _____

Which of the following ions are likely to be formed? Circle one:

- | | | | | | |
|-------------|-----|----|---------------|-----|----|
| 5) N^{+5} | yes | no | 8) Al^{+2} | yes | no |
| 6) He^{+} | yes | no | 9) P^{-3} | yes | no |
| 7) F^{-1} | yes | no | 10) Mg^{+2} | yes | no |

Write the formula which result from combining the following ions:

- 11) K^{+1} and Br^{-} _____
- 12) Li^{+1} and O^{-2} _____
- 13) Ca^{+2} and Cl^{-1} _____
- 14) Al^{+3} and S^{-2} _____
- 15) Fe^{+2} and S^{-2} _____
- 16) Na^{+1} and NO_3^{-1} _____
- 17) Na^{+1} and SO_4^{-2} _____
- 18) NH_4^{+1} and CO_3^{-2} _____
- 19) Fe^{+3} and CrO_4^{-2} _____
- 20) Al^{+3} and PO_4^{-3} _____

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RJ Alexander



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Canada,1970 *Techniques in Hydrothermal Ore Deposits Geology* Peter B. Larson,1998

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