Electron Configuration Practice

General Chemistry

Date: Hour_

Write the complete electron configuration & identify the number of valence electrons for each of the following atoms. Assume all atoms are neutral in charge.

- 1) Lithium (Li) = ______No. of valence electrons:_____
- 2) Nitrogen (N) = ______ No. of valence electrons:_____
- 3) Silicon (Si) = ______ No. of valence electrons:_____
- 4) Hydrogen (H) = ______ No. of valence electrons:_____
- 5) Magnesium (Mg) = ______ No. of valence electrons:_____
- 6) Carbon (C) = No. of valence electrons:

Use the electron configuration to identify the element name and identify the number of valence electrons for each of the following atoms. Assume all atoms are neutral in charge.

- 7) $1s^22s^22p^4 =$ ______No. of valence electrons:_____
- 8) $1s^22s^22p^63s^1 =$ ______ No. of valence electrons:
- 9) $1s^2 =$ ______ No. of valence electrons:_____
- 10) $1s^22s^22p^6 =$ No. of valence electrons:
- 11) $1s^22s^22p^63s^23p^5 =$ No. of valence electrons:
- 12) $1s^22s^22p^63s^23p^3 =$ _______No. of valence electrons: ______

Write the electron	configuration	& identify	the number	of valence	electrons j	for each	of the following	ng atoms.
Assume all atoms	are neutral in	charge.						

13) Potassium $(K) =$ No. of valence electrons and the valence of valence electrons are the valence electrons.	rons:
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Use the electron configuration to identify the element name and identify the number of valence electrons for each of the following atoms. Assume all atoms are neutral in charge.

19)
$$1s^22s^22p^5 =$$
______No. of valence electrons:_____

20)
$$1s^22s^22p^63s^23p^1 =$$
 ________No. of valence electrons:

21)
$$1s^22s^22p^63s^23p^64s^23d^3 =$$
 ______ No. of valence electrons: _____

22)
$$1s^22s^22p^63s^23p^64s^23d^{10} =$$
 ______No. of valence electrons:

23)
$$1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^1 =$$
______No. of valence electrons:_____

24)
$$1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^24d^{10}5p^6 =$$
 _______No. of valence electrons: