

For all of the elements below, determine the arrow diagram then write the electron configuration. Indicate the number of *unpaired* electrons in the element.

1) Element: <b>Mg</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____	2) Element: <b>Ar</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____
3) Element: <b>S</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____	4) Element: <b>Al</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____
5) Element: <b>Cr</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____	6) Element: <b>Ca</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____
7) Element: <b>Cl</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____	8) Element: <b>Ge</b> # of electrons= _____ Electron Config: _____ 5s _____ 4p _____ 3d _____ 4s _____ 3p _____ 3s _____ 2p _____ 2s _____ 1s _____