Electron Configurations Worksheet

Write the complete ground state electron configurations for the following:

1)	lithium	
2)	oxygen	-
3)	calcium	_
4)	titanium	_
5)	rubidium	_
6)	lead	
7)	erbium	
Write the abbreviated ground state electron configurations for the following:		
8)	helium	
9)	nitrogen	_
10)	chlorine	_
11)	iron	
12)	zinc	
13)	barium	
14)	polonium	

Electron Configurations Worksheet - Answers

Write the complete ground state electron configurations for the following:

- 1) lithium 1s²2s¹
- 2) oxygen 1s²2s²2p⁴
- 3) calcium 1s²2s²2p⁶3s²3p⁶4s²
- 4) titanium 1s²2s²2p⁶3s²3p⁶4s²3d²
- 5) rubidium 1s²2s²2p⁶3s²3p⁶4s²3d¹⁰4p⁶5s¹
- 6) lead 1s²2s²2p⁶3s²3p⁶4s²3d¹⁰4p⁶5s²4d¹⁰5p⁶6s²4f¹⁴5d¹⁰6p²
- 7) erbium $1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^24d^{10}5p^66s^24f^{12}$

Write the abbreviated ground state electron configurations for the following:

- 8) helium 1s² (this one cannot be abbreviated)
- 9) nitrogen [He] 2s²2p³
- 10) chlorine [Ne] 3s²3p⁵
- 11) iron [Ar] 4s²3d⁶
- 12) zinc [Ar] 4s²3d¹⁰
- 13) barium [Xe] 6s²
- 14) polonium [Xe] 6s²4f¹⁴5d¹⁰6p⁴