

Electron Configuration Practice Worksheet

In the space below, write the unabbreviated electron configurations of the following elements:

- 1) sodium $1s^2 2s^2 2p^6 3s^1$
- 2) iron $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^6$
- 3) bromine $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^10 4p^5$
- 4) barium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^10 4p^6 5s^2$
- 5) neptunium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^10 4p^6 5s^2 4f^14 5p^6 6s^2 4f^14 5d^2 6p^6 7s^2 5f^2$

In the space below, write the abbreviated electron configurations of the following elements:

- 6) cobalt $[\text{Ar}] 4s^2 3d^7$
- 7) silver $[\text{Kr}] 5s^2 4d^9$
- 8) tellurium $[\text{Kr}] 5s^2 4d^{10} 5p^4$
- 9) radium $[\text{Rn}] 7s^2$
- 10) lawrencium $[\text{Rn}] 7s^2 5f^{14} 6d^1$

Determine what elements are denoted by the following electron configurations:

- 11) $1s^2 2s^2 2p^6 3s^2 3p^4$ sulfur
- 12) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1$ rubidium
- 13) $[\text{Kr}] 5s^2 4d^{10} 5p^3$ antimony
- 14) $[\text{Xe}] 6s^2 4f^{14} 5d^6$ osmium
- 15) $[\text{Rn}] 7s^2 5f^{14}$ einsteinium

Determine which of the following electron configurations are not valid:

- 16) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 4d^{10} 4p^3$ not valid
- 17) $1s^2 2s^2 2p^6 3s^2 3d^7$ not valid
- 18) $(\text{Ra}) 7s^2 5f^6$ not valid
- 19) $[\text{Kr}] 5s^2 4d^{10} 5p^5$ valid
- 20) $[\text{Xe}]$ not valid (an element can't be its own configuration)

Electron Configuration Ws 1 Answer Key

CL Gary

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