

Electron Configurations Practice #2: *Orbital Notation*

Name: _____

Part I: Write the orbital notation (orbital diagram) electron configuration of the following elements. Be sure to include the long-hand electron configuration notation underneath each orbital notation.

1) Magnesium _____

2) Cobalt _____

3) Krypton _____

4) Chlorine _____

5) Scandium _____

Part II: Write the long-hand electron configuration notation of the following elements:

6) Nickel _____

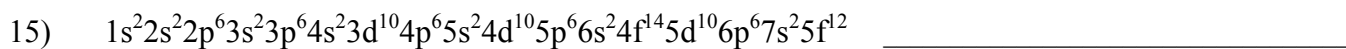
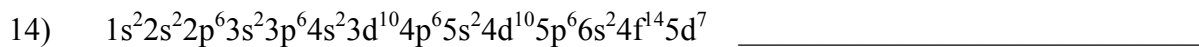
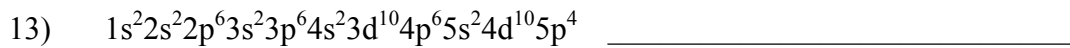
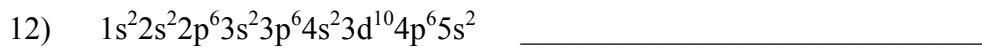
7) Cadmium _____

8) Selenium _____

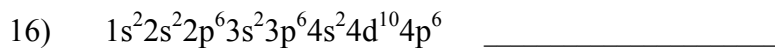
9) Strontium _____

10) Lithium _____

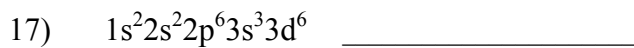
Part III: Determine the identity of the element that is denoted by each of the following electron configurations. Include element name with correct spelling AND element symbol in parenthesis.



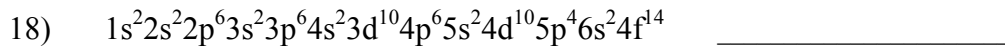
Part IV: VALID or INVALID electron configurations? If INVALID, rewrite the CORRECT long-hand notation so that it contains the SAME number of electrons as the original electron configuration.



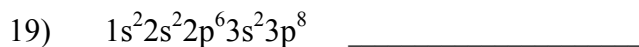
→ Correct electron configuration: _____



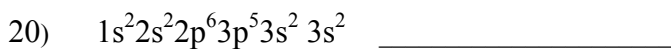
→ Correct electron configuration: _____



→ Correct electron configuration: _____



→ Correct electron configuration: _____



→ Correct electron configuration: _____