**Chapter 5, Section 1 Questions**

**Answer these questions on your own paper or on the back.**

1. What was Dmitri Mendeleev’s goal in the mid 1800’s?
2. What did Mendeleev write on the cards he used to find patterns among the elements?
3. Mendeleev determined that patterns emerged when elements were arranged in order of ? .
4. Mendeleev predicted the existence of three elements not yet discovered. These elements were ? .
5. What did Henry Moseley examine that led him to the discovery of a pattern among the elements?
6. Moseley determined that elements should be arranged in order of ? .
7. According to the periodic law, the physical and chemical properties of the elements are periodic functions of their ? .
8. The periodic table is an arrangement of elements in order of ? so that elements with similar properties fall in the same group.
9. The noble gases, lanthanides, and actinides were discovered before Mendeleev created his periodic table. This statement is ? (true or false).
10. The lanthanides and actinides belong in periods ? and ? .