**Periodic Table Worksheet**

***Trends, Groups, and Metals***

1) Which of the following is the most reactive metal?

**neon boron beryllium lithium silicon**

2) Within a period, the element with the lowest first ionization energy is found in group:

**1 18 17 14 11**

3) Which of the following elements is most electronegative?

**phosphorus carbon chlorine boron iodine**

4) Which of the following has the most metallic character?

**fluorine chlorine bromine iodine**

5) Elements in the same period have the same number of:

**protons neutrons electrons valence electrons none of these**

6) The element in period 3 with the largest atomic radius is:

**sodium chlorine magnesium argon**

*Answer the following questions about the elements:*

8) Name an element that would be good for making a bulletproof shield:

9) Why would it be a bad idea to make an air conditioning system out of boron, despite the fact that boron is a solid that can be made into a variety of shapes?

10) Titanium is used to make artificial hip implants. Since we are nonmetallic, wouldn’t it be a better idea to make hip implants from nonmetals? Explain.