The Mystery Element

Name_____

Follow the clues to find the identity of the mystery element…

I promise to do my own work on this mission and not cheat off anyone else for fear of losing my pinky toes _____

Signature of above mentioned

1.) Take the atomic number of an atom of lithium and add the number of protons in a fluorine atom. _____

2.) To your answer in step #1, add the number of electrons in an atom of cadmium. _____

3.) Divide your answer in #2 by the number of neutrons in an atom of boron with a mass number of 11. _____

4.) Take the number that you get in #3 and multiply by the number of electrons in a sodium ion with a +1 charge. _____

5.) Subtract the number of protons in an atom of calcium from your answer in #4. _____

6.) Take your answer in #5 and divide by the number of electrons in a fluorine ion with a -1 charge. _____

7.) Divide your answer from #6 by the number of neutrons in an atom of carbon-14. _____

8.) Next, take that number from #7 and add the number of protons in an atom of copper. _____

9.) To that number, subtract the number of neutrons in an atom of oxygen. (round) _____

10.) To your answer from #9, add the number of protons of an atom that has 4 more protons than an atom of potassium. _____

11.) Divide that answer by the atomic number of plain old boring boron. _____

12.) To that answer, add the number of neutrons in an isotope of Nitrogen-13. _____

13.) To your answer in #12, add the number of protons in an atom of astatine. _____

14.) Add the number of electrons in an atom of hydrogen from your answer in #13. _____

15.) What is you mystery element? _____ / atomic # _____

Bonus: What does this element have to do with the periodic table? Hint: It's in the name!!!!!!! _____