**Mini-quiz #3 Chemistry 1114 section 2 (Fong) 2 Sept 2013 4 pts**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_answers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. The electron weighs much \_\_\_\_\_less\_\_\_\_\_\_\_\_\_\_\_\_ than a proton.
2. The electron radius is about \_\_100,000\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_times that of a nucleus
3. If a grain of sand with a radius of 0.004 cm is the nucleus then the electronic radius as about the size of:
4. A baseball (~4 cm)
5. A beachball (~30 cm)
6. A small weather balloon (~400 cm)
7. Large observation balloon (~35000 cm)
8. Which is about the right ratio of proton mass/electron mass:
9. 1 b) 20 c) 200 **d) 2000** e) 20,000

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