

## Atomic Particle Basics

Name - \_\_\_\_\_

1.) For each of the following descriptions, which particle fits best?

a.) has a positive charge. \_\_\_\_\_

b.) is the most massive. \_\_\_\_\_

c.) has a negative charge. \_\_\_\_\_

d.) gives the nucleus its electric charge. \_\_\_\_\_

e.) is in the region surrounding the nucleus. \_\_\_\_\_

f.) has no electric charge. \_\_\_\_\_

g.) has the least amount of mass. \_\_\_\_\_

h.) is in the nucleus along with protons. \_\_\_\_\_

2.) Neutral atoms have no overall electric charge even though protons and electrons have an electric charge. Explain.

3.) Imagine that the nucleus of an atom is the size of a hardball. If the hardball was placed on a pitchers mound how large would the whole atom be?