Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_

1. The Amazon River releases $5.5×10^{7}$ gallons of water into the Atlantic Ocean every second. There are about $3.2×10^{9}$ seconds in a year. How many gallons are released into the ocean in one year? Show all work, and give your answer in scientific notation.
2. An atom of hydrogen has a mass of about $1.66×10^{-24}$ grams. An atom of oxygen has a mass of about $2.656×10^{-23}$grams. How many times the mass of the hydrogen atom is the mass of the oxygen atom? Explain how you found your answer.