

Wholly Moley

Name _____

Mass of a proton : $1.6726 \cdot 10^{-27}$ kg or $1.6726 \cdot 10^{-24}$ g

Mass of a neutron: $1.6749 \cdot 10^{-27}$ kg or $1.6749 \cdot 10^{-24}$ g

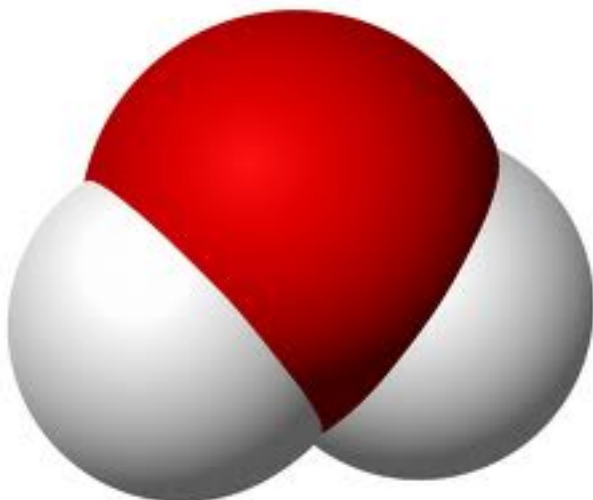
Mass of an electron: $0.00091 \cdot 10^{-27}$ kg or $9.1 \cdot 10^{-28}$ g

A hydrogen atom contains 1 proton and 1 electron

An oxygen atom has 8 protons, 8 neutrons, and 8 electrons

How much does each atom, hydrogen and oxygen, weigh in grams?

How much does a molecule of water (H_2O) weigh?



If you had 18 grams of water (less than two thirds of an ounce), how many molecules would you have?