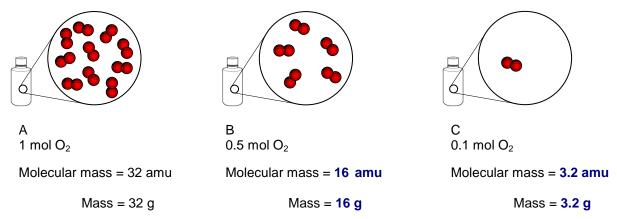
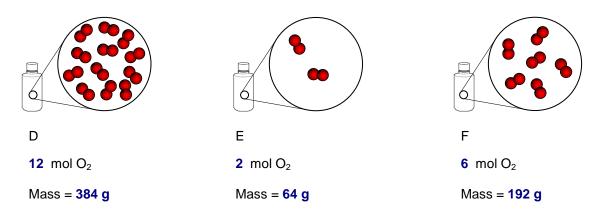
Chemistry: Moles and Mass Relationships

The mass of a mole of a substance expressed in grams is equal to its molecular mass.

1. Each of the following bottles contains a different number of moles of oxygen gas (O₂). For jars B and C, draw molecules in the circles. The number of molecules in each circle is proportional to the number of moles of O₂ per unit of volume.



2. For jars D, E, F, use the number of molecules in the circle to determine the number of moles of O₂ in the jar. Then calculate the mass of the gas in the jar.



3. Jars G, H, and I contain ammonia gas (NH_3) . For jars H and I, draw the molecules in the circles and calculate the mass of the gas.

