**Combining *Volumes* Law Practice questions**

1. xenon and fluorine gas react to produce solid crystals of xenon tetrafluoride

What volume of fluorine is required to consume 85mL of xenon? **(0.17L)**

Xe(g) + 2 F2(g) 🡪 XeF4(g)

1. The combustion of gasoline in an automobile engine is represented in the equation below. If the 4.0L of oxygen are consumed, what volume of each of the product gases will result? **(CO2=2.9L , H2O=2.9L)**

2 C8H18 (l) + 25 O2 (g) 16 CO2(g) + 18 H2O(g)

1. Ammonia is made through the reaction of hydrogen gas with nitrogen gas. How much hydrogen gas is needed to produce 1.00 × 105L of ammonia? **(1.50x105L)**
2. If 8.00L of propane, C3H8 (g), is burned in a BBQ, what is the total volume of gaseous products produced? **(56.0L)**