

Dalton's Law Worksheet

- 1) A metal tank contains three gases: oxygen, helium, and nitrogen. If the partial pressures of the three gases in the tank are 35 atm of O_2 , 5 atm of N_2 , and 25 atm of He, what is the total pressure inside of the tank?
- 2) Blast furnaces give off many unpleasant and unhealthy gases. If the total air pressure is 0.99 atm, the partial pressure of carbon dioxide is 0.05 atm, and the partial pressure of hydrogen sulfide is 0.02 atm, what is the partial pressure of the remaining air?
- 3) If the air from problem 2 contains 22% oxygen, what is the partial pressure of oxygen near a blast furnace?