

Ideal Gas Law Worksheet

- 1) Small children are occasionally injured when they try to inhale helium from a compressed helium tank. If a small child tries to transfer the contents of a 5.0 L tank of helium at a pressure of 125 atm and a temperature of 20⁰ C into its lungs, how many moles of gas will it inhale?
- 2) After the child has exhaled all of this gas, it becomes sick. If its temperature rises to 42⁰ C and it can hold 0.15 moles of air in its lungs at a pressure of 1.15 atm, what is the new volume of the child's lungs?
- 3) What is the pressure inside a 25 L container that holds 82 moles of gas at a temperature of 250⁰ C?
- 4) Write your own ideal gas law problem and include the answer. Be creative!