

### Combined Gas Law Practice

Go here to see a few problems worked out.

<http://www.chemteam.info/GasLaw/Gas-Combined.html>

Go here for problems and answers.

[http://misterguch.brinkster.net/WKS001\\_007\\_146637.pdf](http://misterguch.brinkster.net/WKS001_007_146637.pdf)

\*Solve on paper showing your work. Don't forget to use the appropriate units!

1. If a sample of carbon dioxide has a temperature of 58K at a pressure of 78kPa at what pressure will it have a temperature of 104K?

2. At standard pressure, 101.3kPa a balloon has a volume of 8L. When the pressure is increased to 405.2kPa what will the volume be?

3. At a pressure of 607.8kPa and a temperature of 546K a gas occupies 0.02L of space. How much space will it take up at a pressure of 202.6kPa and a temperature of 273K?

4. At 202.3kPa a sample of argon gas has a volume of 0.2L, when its volume is decreased to 0.05L what is the new pressure in kpa?

5. At a temperature of 273 K a gas has a volume of 0.03L, when the temperature is increased to 364 K what will the volume be?