

Charles' Law Worksheet

Assume that the pressure and the amount of gas present remain constant in the following problems.

1. A gas at 89°C occupies a volume of 0.67 L. At what Celsius temperature will the volume increase to 1.12 L?
2. The Celsius temperature of a 3.00-L sample of gas is lowered from 80.0°C to 30.0°C . What will be the resulting volume of this gas?
3. What is the volume of the air in a balloon that occupies 0.620 L at 25°C if the temperature is lowered to 0.00°C ?