Name:		

Gay-Lussac's Law Worksheet With Answers

1. Determine the pressure change when a constant volume of gas at 1.00 atm is heated from 20.0 $^{\circ}$ C to 30.0 $^{\circ}$ C.

2. A container of gas is initially at 0.500 atm and 25 $^{\circ}C$. What will the pressure be at 125 $^{\circ}C$?

3. A gas container is initially at 47 mm Hg and 77 K (liquid nitrogen temperature.) What will the pressure be when the container warms up to room temperature of 25 °C?

4. A gas thermometer measures temperature by measuring the pressure of a gas inside the fixed volume container. A thermometer reads a pressure of 248 kPa at 0 $^{\circ}$ C. What is the temperature when the thermometer reads a pressure of 345 kPa?

