- 15.0 g of ammonia gas, NH<sub>3</sub>, is collected at 12.0 °C over water. If a pressure guage connected to the container reads 18.5 kPa, what is the partial pressure of the ammonia gas?
- 2. Hydrogen gas is collected over water at 333K. If the partial pressure of the hydrogen is 80.0 kPa, what is the total pressure in the container?

3. 27.5 g of fluorine gas is collected over water. If the gas is at 5.00°C, what is the volume of the fluorine gas if the total pressure of the water and the fluorine gas is 32.0 kPa?

4. 25.0 g of carbon monoxide is collected over water in a 50.0 mL container. If the temperature is 70.00 °C, what is the total volume?

5. The total pressure inside of a container holding 3.00 moles of an unknown gas collected over water is 50.0 kPa. If the temperature is 63.5 °C, and the volume of the gas is 552 mL, what is the partial pressure of the water vapour?