$$(3H_8(g) + 50_2(g) \rightarrow 3Co_2(g) + 4H_2O(g); \Delta H = -2043 kJ$$

Calculate the volume of propane gas at 25.0 C and 1.08 atm required to provide 565 kJ of heat using the reaction above.

- 1 Convert the energy to moles propane using the thermochemical equation.
- 2 Convert moles propane to volume using the ideal gas law.