Answers to Practice Problems E in page 435
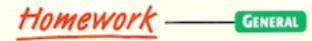
Answers to Practice Problems E

1. 7.97×10^{-2} mol
2. 0.137 mol
3. 1500 kPa
4. 2.73×10^4 L

Homework — GENERAL

Additional Practice

1. How many moles of gas are in a balloon that has a volume of 15.9 L at a pressure of 149 kPa and a temperature of 28°C?
   Ans. 0.947 mol

2. How many moles of ammonia, NH_3, is required to fill a 14.88 L bottle to a pressure of 199 kPa at 25°C? Ans. 1.20 mol NH_3

3. What is the volume of 4.35 moles of a gas at a pressure of 85.6 kPa and 26.0°C?
   Ans. 126 L