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Answers to Practice Problems C

1. 0.67 L
2. 815 mL
3. -11.0°C
4. $1.64 \times 10^3 \text{ L}$

Homework

GENERAL

Additional Practice

1. A balloon with a volume of 15.5 L is inflated in a room at 20.0°C and then taken outside where the temperature is 7.0°C , what will be the new volume of the balloon if the pressure remains constant? **Ans. 14.8 L**
2. If the original temperature of a 62.2 L sample of a gas is 150°C , what is the final temperature of the gas (in degrees Celsius) if the new volume of the gas is 24.4 L and the pressure remains constant? **Ans. 107°C**
3. The volume of gas in a syringe is 15.0 mL at 23.5°C . What will the volume of the gas be at 72.5°C if the pressure is held constant? **Ans. 17.5 mL**

 Logical