

- 9** An isolated container is divided into two sections of equal volumes by a partition. The ideal gas in each section has the same pressure  $P$ .

What is the final pressure after the partition is removed?

**A**  $\frac{1}{2}P$

**B**  $P$

**C**  $\frac{3}{2}P$

**D**  $2P$

- 10** A fixed volume container contains a mixture of two monatomic gases X and Y at the same