

**12** The value of the Avogadro constant is  $6.02 \times 10^{23}$ .

What is the total number of atoms in 2.00 mol of ammonia gas?

**A**  $1.20 \times 10^{24}$

**B**  $2.41 \times 10^{24}$

**C**  $4.82 \times 10^{24}$

**D**  $2.89 \times 10^{25}$