

**12** Calcium carbonate decomposes when heated strongly.



How many gaseous molecules are produced when 10.0 g of calcium carbonate is completely decomposed?

**A**  $1.00 \times 10^{22}$

**B**  $1.20 \times 10^{23}$

**C**  $6.02 \times 10^{22}$

**D**  $6.02 \times 10^{23}$