

- 21** Two solid substances P and Q have atoms of mass  $M_P$  and  $M_Q$  respectively. They have  $N_P$  and  $N_Q$  atoms per unit volume.

It is found by experiment that the density of P is greater than that of Q.

Which of the following deductions from this experiment must be correct?

- A**  $M_P > M_Q$
- B**  $N_P > N_Q$
- C**  $M_P N_P > M_Q N_Q$
- D**  $\frac{M_P}{N_P} > \frac{M_Q}{N_Q}$