

**19** An ideal gas has a volume of  $8.70\text{ m}^3$  and contains  $1.44 \times 10^{26}$  molecules.

Its pressure is  $9.80 \times 10^4\text{ Pa}$ .

What is its temperature?

**A** 156K

**B** 429K

**C** 4290K

**D**

29 600K