

- 11 A container filled with an ideal gas is at a temperature of 80 °C. The root-mean-square (r.m.s.) speed of the gas molecules is 350 ms^{-1} .

The temperature of the gas is increased to 160 °C.

What is now the r.m.s. speed of the gas molecules?

- A 390 ms^{-1} B 430 ms^{-1} C 490 ms^{-1} D 700 ms^{-1}

