18 The thermodynamic temperature of an ideal gas is raised from T to $2T$.

Which quantity must be doubled?

A   the root-mean-square speed of the molecules

B   the square of the mean speed of the molecules

C   the mean speed of the molecules

D   the mean-square speed of the molecules

19 20 g of oxygen at a temperature of 100 °C occupy a cubic container of side 20 cm