16   A mixture of neon and helium gases are in thermal equilibrium. The mass of a single neon atom is 2.5 times that of helium. The mixture of gases behaves ideally.

What is the ratio of $\dfrac{\text{root-mean-square speed of a helium atom}}{\text{root-mean-square speed of a neon atom}}$?

A   0.80   **B**   1.0   **C**   1.6   **D**   2.5