1 How long, in picoseconds, does it take for light with a speed of $3 \times 10^5\,\text{km s}^{-1}$ to travel across a virus of diameter $3 \times 10^{-1}\,\mu\text{m}$?

A $1 \times 10^{-6}\,\text{ps}$ **B** $1 \times 10^{-3}\,\text{ps}$ **C** $1 \times 10^{0}\,\text{ps}$ **D** $1 \times 10^{1}\,\text{ps}$