4 A particle has a mass of $3.17 \times 10^{-27}\,\text{kg}$.

Which of the following gives the mass in GeV/c²?

☒ **A** $\dfrac{3.17 \times 10^{-27} \times 10^{9} \times 1.6 \times 10^{-19}}{3.00 \times 10^{8}}$

☒ **B** $\dfrac{3.17 \times 10^{-27} \times 10^{9} \times 1.6 \times 10^{-19}}{\left(3.00 \times 10^{8}\right)^{2}}$

☒ **C** $\dfrac{3.17 \times 10^{-27} \times \left(3.00 \times 10^{8}\right)^{2}}{1.6 \times 10^{-19}}$

☒ **D** $\dfrac{3.17 \times 10^{-27} \times \left(3.00 \times 10^{8}\right)^{2}}{10^{9} \times 1.6 \times 10^{-19}}$

(Total for Question 4 = 1 mark)