

8 A proton has a mass of $1.67 \times 10^{-27} \text{ kg}$.

Which of the following shows the conversion of this mass to GeV/c^2 ?

☐ A $\frac{1.67 \times 10^{-27} \times 1.60 \times 10^{-10}}{(3.00 \times 10^8)^2}$

☐ B $\frac{1.67 \times 10^{-27} \times 1.60 \times 10^{-19}}{(3.00 \times 10^8)^2}$

☐ C $\frac{1.67 \times 10^{-27} \times (3.00 \times 10^8)^2}{1.60 \times 10^{-10}}$

☐ D $\frac{1.67 \times 10^{-27}}{1.60 \times 10^{-10} \times (3.00 \times 10^8)^2}$

(Total for Question 8 = 1 mark)