Answer on Question 67105, Physics, Other

Question:

A bullet has a mass of $0.015\ kg$. It travels with a velocity of $450\ m/s$. What is its momentum?

a) $6.75\ kg \cdot \dfrac{m}{s}$

b) $30000\ p$

c) $6.75\ p$

d) $30000\ kg \cdot \dfrac{m}{s}$

Solution:

By the definition of the momentum we have:

$$p = mv = 0.015\ kg \cdot 450\ \frac{m}{s} = 6.75\ kg \cdot \frac{m}{s}.$$

Answer:

a) $6.75\ kg \cdot \dfrac{m}{s}$.