Task:

What is the magnitude of momentum of a 22 g sparrow flying with a speed of 8.1 m/s?

Solution:

$p = mv$, where

$p -$ momentum,

$m -$ mass,

$v -$ velocity

Given:

$m = 22\ g = 0.022\ kg$,

$v = 8.1\ m/s$

$$p = mv = 0.022\ kg \cdot 8.1 \frac{m}{s} = 0.1782 \frac{kg \cdot m}{s}$$

Answer:

$$p = 0.1782 \frac{kg \cdot m}{s}$$