

An ostrich with a mass of 143 kg is running to the right with a velocity of 12 m/s. Find the momentum of the ostrich. Answer in units of kg · m/s.

**Solution.**

$$m = 143\text{kg}, v = 12 \frac{\text{m}}{\text{s}};$$

$$p = ?$$

The momentum of the ostrich is:

$$p = mv.$$

$$p = 143 \cdot 12 = 1716 \left( \text{kg} \cdot \frac{\text{m}}{\text{s}} \right).$$

**Answer:**  $p = 1716\text{kg} \cdot \frac{\text{m}}{\text{s}}$ .