Answer on Question #46326, Physics, Other

Question:

A bus starting from rest moves with a uniform acceleration of 0.1m/s for two minutes. Find the speed acquired by the bus.

Answer:

Acceleration by definition equals:

$$a = \frac{\Delta v}{\Delta t}$$

where Δv is change of velocity, Δt is time interval.

Therefore:

$$v = a\Delta t = 0.1\frac{m}{s^2} \cdot 120\ s = 12\frac{m}{s}$$

Answer: $12\frac{m}{s}$