Answer on Question #63228 - Physics - Mechanics | Relativity

a force of 20 N is applied on a body so that it attains a velocity of 10 m/s in 2 s. what is the mass of the body?

Answer

$$F = m \times a = m \times \frac{\Delta V}{t}$$

$$m = \frac{F \times t}{\Delta V}$$

$$m = \frac{20\,N \times 2\,s}{10\,m/s} = 4\,kg$$

Answer: 4 kg.