

Question

We have: $v_1 = v_0 + at$.

We know that:

$$v_0 = 3 \frac{m}{s}$$

$$a = -0.6 \frac{m}{s^2}$$

$$v_1 = 0 \frac{m}{s}$$

And we need to find t .

$$\text{So, we will have: } t = \frac{v_1 - v_0}{a} = \frac{0 - 3}{-0.6} = 5 \text{ seconds.}$$

Answer: 5 seconds.