Rearanging the Subject of the Formula

$$E_k = \frac{1}{2} m v^2$$

$$\frac{2}{1} \times \frac{1}{2} m v^2 = E_k \times \frac{2}{1}$$

$$\frac{m v^2}{m} = \frac{2 \times E_k}{m}$$

$$\sqrt{v^2} = \sqrt{\frac{2 \times E_k}{m}}$$

$$v = \sqrt{\frac{2 \cdot E_k}{m}}$$

$$V = I \times R$$

$$6 = 2 \times 3$$

$$V = I \cdot R$$

$$\frac{I \cdot \cancel{R}}{\cancel{R}} = \frac{V}{R}$$

$$I = \frac{V}{R}$$

$$2 = \frac{6}{3}\ \frac{V}{R}$$

$$I = \frac{V}{R}$$

$$I = V \times R$$

$$I = \frac{R}{V}$$

$$V = IR$$

$$I_x R = V$$

$$R = \frac{V}{I}$$

$$V = u + at$$

$$at + u = V$$

$$at = V - u$$

$$a = \frac{V - u}{t}$$

$$\frac{v-u}{t} = a$$

$$\frac{v-u}{a} = t \cdot a$$

$$\frac{v-u}{a} = t$$

$$t = \frac{v-u}{a}$$

$$a = \frac{F}{m}$$

$$\frac{F}{m} = a$$

$$F = m \times a$$

$m = ?$

$a = 3\ m.s^{-2}$

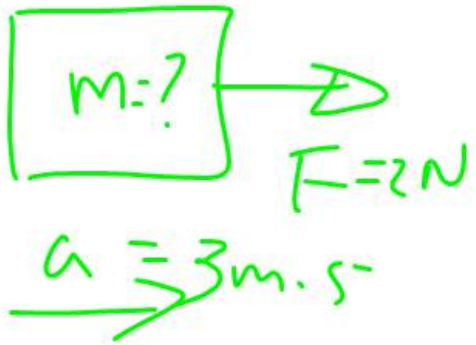
$F = 2\ N$

$$a = \frac{F}{m}$$

$$m \times a = F$$

$$m = \frac{F}{a} = \frac{2}{3}$$

$$= 0{,}67\ Kg$$



$$a = \frac{F}{m}$$

$$\frac{1}{a} = \frac{m}{F}$$

$$\frac{F}{a} = m$$

$$E_k = \frac{1}{2} m v^2$$

$$\frac{2}{1} \times \frac{1}{2} m \times v^2 = E_k$$

$$m \times v^2 = \frac{2}{1} E_k$$

$$m = \frac{2 E_k}{v^2}$$

$$\frac{2 \times 1}{1 \times 2}$$

$$\frac{2}{2}$$

$$1 : 1$$

$$\frac{1}{2} m \times v^2 = E_k$$

$$\frac{1}{2} m = \frac{E_k}{v^2}$$

$$m = \frac{2}{1} \times \frac{E_k}{v^2}$$