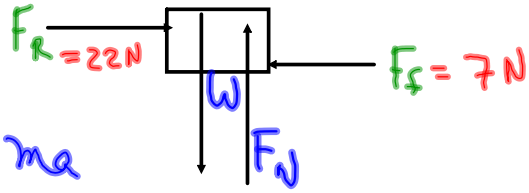
$$[3 \text{ grams}]\left[\frac{1 \text{ kg}}{1000 \text{ grams}}\right] = 0.003 \text{ kg}$$



$$\sum F_{is} = ma$$

$$F_R - F_f = ma$$

$$22N - 7N = \underset{.003}{15N} = \underset{.003}{(.003)(a)} = \text{net force}$$

W = WEIGHT
$= (\text{mass})(g) = mg$

$a = 5000 \frac{m}{s^2}$

F_N = NORMAL FORCE = THE FORCE OF REACTION TO A WEIGHT THAT IS "$\perp$" TO THE INTERFACE BETWEEN THE TWO SURFACES OF CONTACT.

$\perp \Rightarrow$ PERPENDICULAR

W = WEIGHT OF AN OBJECT $\rightarrow$ THE FORCE ON THE OBJECT DUE TO GRAVITY

$W = mg$

vs

$F = ma$

$\therefore$ Weight of a 1 kg mass $=$

$\hookrightarrow (1 \text{ kg})\left(9.81 \frac{m}{s^2}\right) = 9.81 N$

$1 \text{ kg} \Rightarrow \sim 2.2 \text{ LBS}$

$$\frac{9.81 N}{2.2 \text{ LBS}} = \left[4.45 \frac{N}{\text{LBS}}\right]$$