

step 4:

UNITS:

Force \rightarrow Newtons (N) + DIRECTION

Acceleration \rightarrow m/s^2 + DIRECTION

Mass \rightarrow kg

$$\textcircled{4} \quad F = m \cdot a$$
$$\frac{10\text{N}}{2.5} = \frac{m \cdot 2.5 \text{ m/s}^2}{2.5}$$
$$m = 4 \text{ kg}$$

Newton's 2nd Law: $F = m \cdot a$

Newton's 1st Law:

. Moving objects keep moving
and resting objects won't
move unless there's a net force.

Newton's 3rd Law:

a pushes/pulls b
ATST b pushes/pulls a