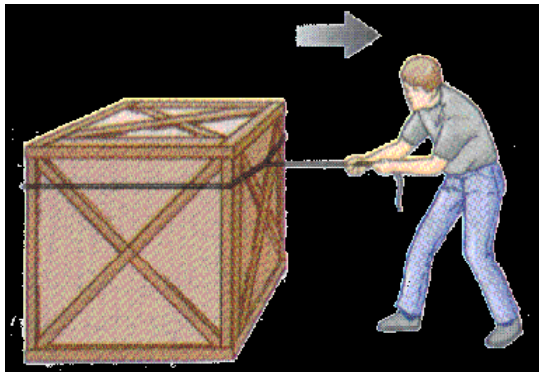
NEWTON'S 2ND LAW OF MOTION NOTES

The net force on an object is equal to the product of its acceleration and its mass.

Force = Mass x Acceleration

Gravity exists between any two objects that have mass.

Weight is the gravitational force between you and Earth.



Example:

A baseball has a mass of .15 kg. What is the net force on the ball if its acceleration is 40 m/s^2?

$F = ma$: $.15kg \times 40m/s^2 = 6N$