



Newton's 1st Law of Motion

aka Law of Inertia

- an object at rest will stay at rest
- an object in motion will tend to stay in motion*
* in a straight line
- unless acted on by an outside Net Force

Hot dog cart

I sell, I have the money box

\$1200 in

rental \$500

dogs, buns, mustard, etc \$500

My Gross was \$1200

How much business I did
how much I took in

expenses were \$1000

The Nut

Profit or Net income. \$200

A Force is a push
or a pull

- in contact
- at a distance
gravity
magnetism

Balanced Forces
no change in the motion

unbalanced Forces
cause a change in
motion, or acceleration