Let The Force be With You



What is a Force?



A CONTA PULLA

What does a force do? Causes a change in motion; starts it , stops it; speeds it up; slows it down or changes its direction

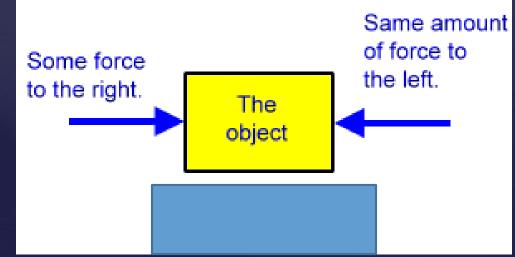
How do I describe a force? A force has a direction and a magnitude (strength) How do I represent a force? Measured in Newtons (N) 30 N Ex.

What are some examples of forces?

Gravity Friction You pushing or pulling

What is a net force?

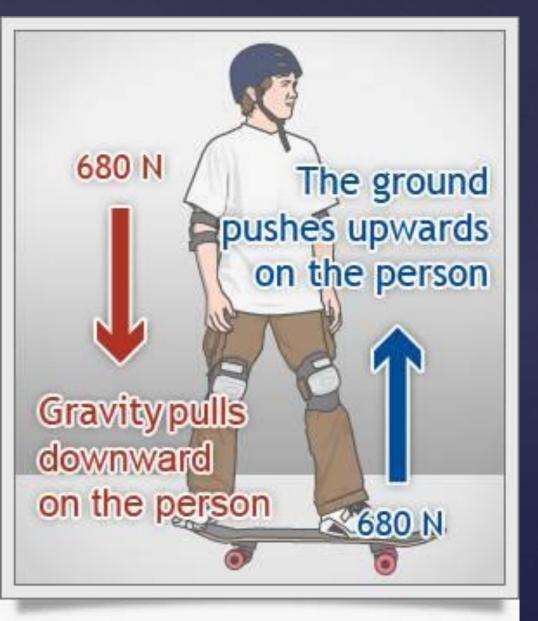
The total amount (sum) of all forces acting on an object in the horizontal or vertical.







Balanced Forces

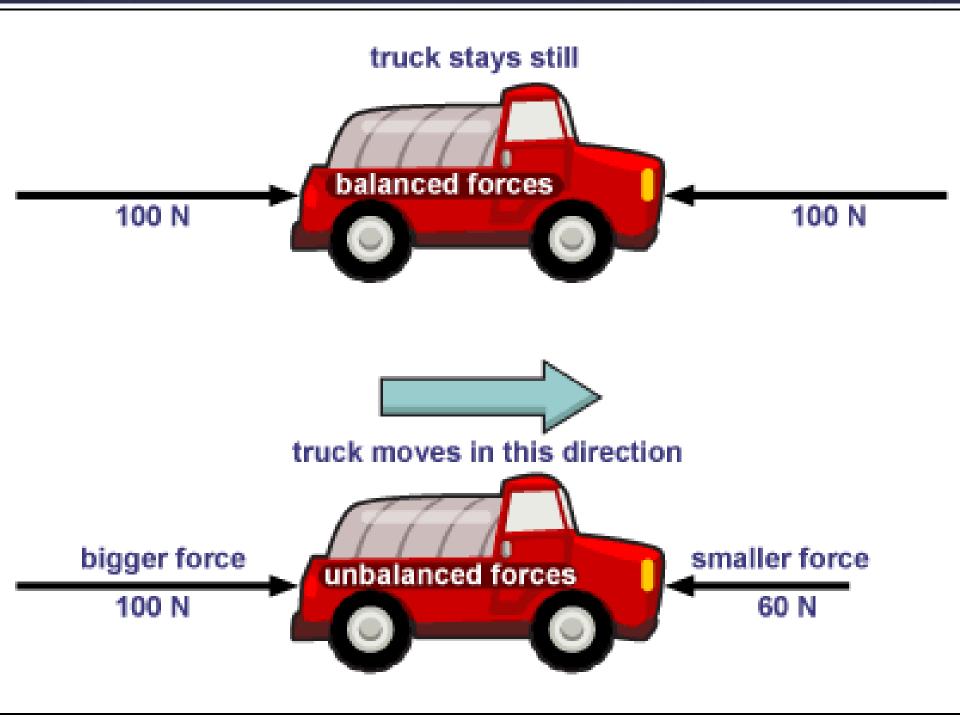


When 2 or more forces cancel each other (=0)and they do not cause a <u>change in</u> motion

Unbalanced Forces When 2 or more forces do NOT cancel each other, net force is <u>not</u> zero and <u>motion will change</u>

Truck speed up in this direction

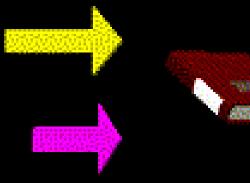




2 forces, same direction



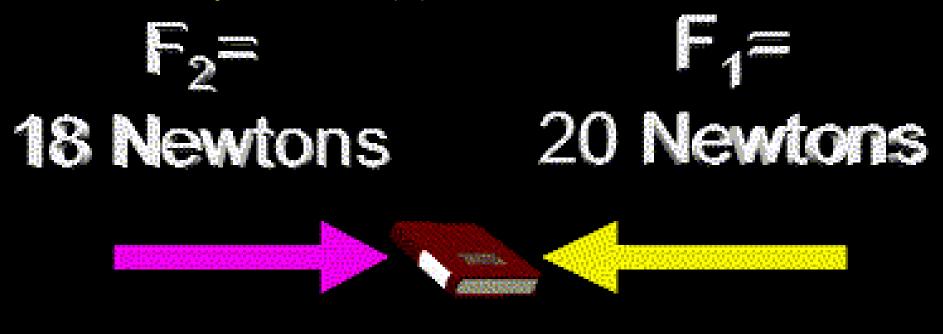
8 Newtons





6 Newtons

2 forces, opposite directions



2 forces, opposite directions

