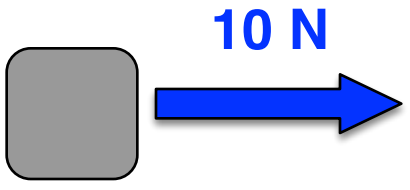
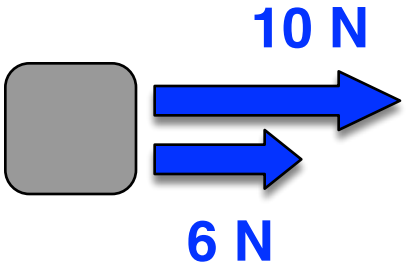
Definition: Net Force (Fnet)

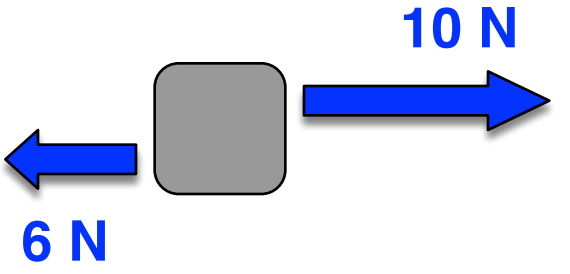
The total of all the forces acting, taking direction into account.



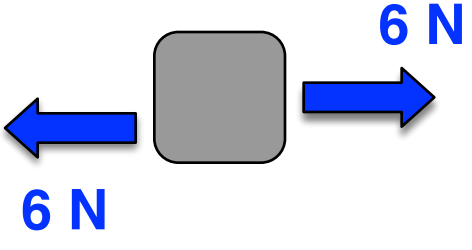
Fnet = 10 N, right



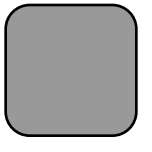
Fnet = 16 N, right



Fnet = 4 N, right



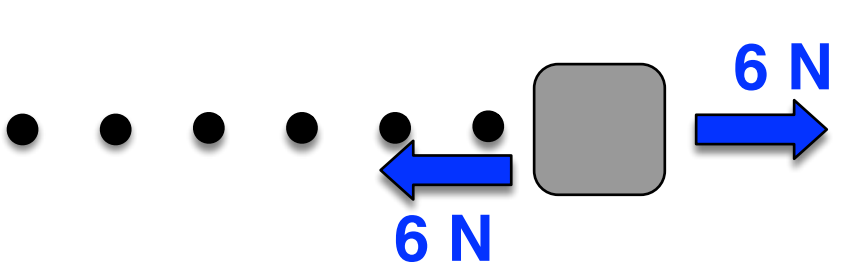
Fnet = 0 N

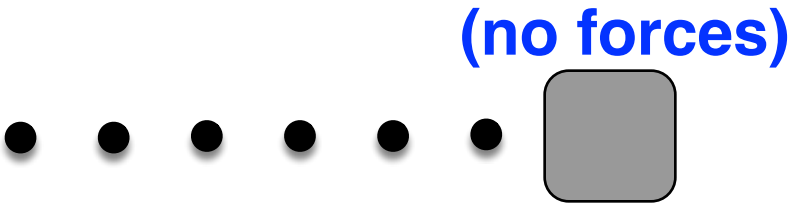


Fnet = 0 N

If something moves with constant speed & direction...

Either no forces are acting, or the forces are canceling out (Fnet = 0)





If something changes speed...

Either one force is acting, or the forces are not canceling out (Fnet ≠ 0)