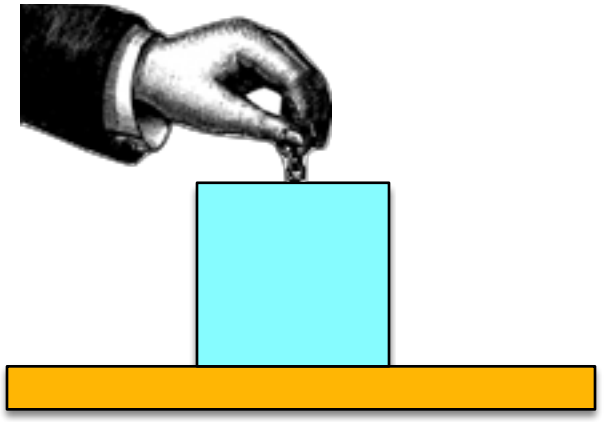
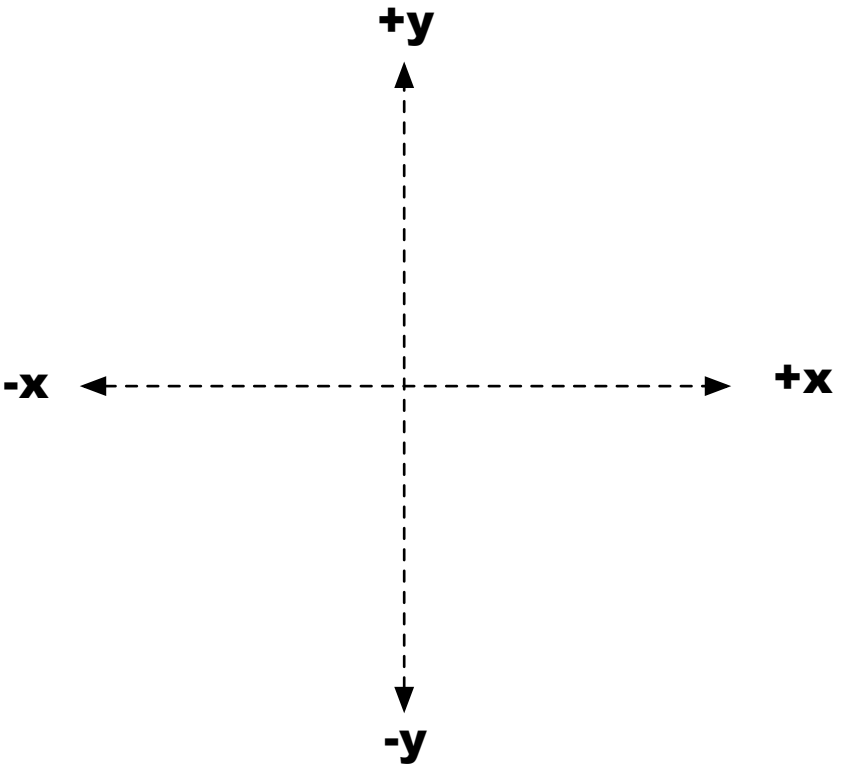
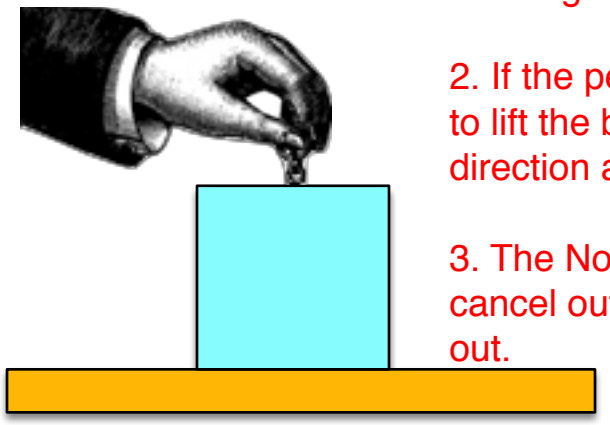




The box weighs 10 N.
The person pulls upward with a force of 2 N.
The box is at rest and staying at rest. Find the Normal Force.

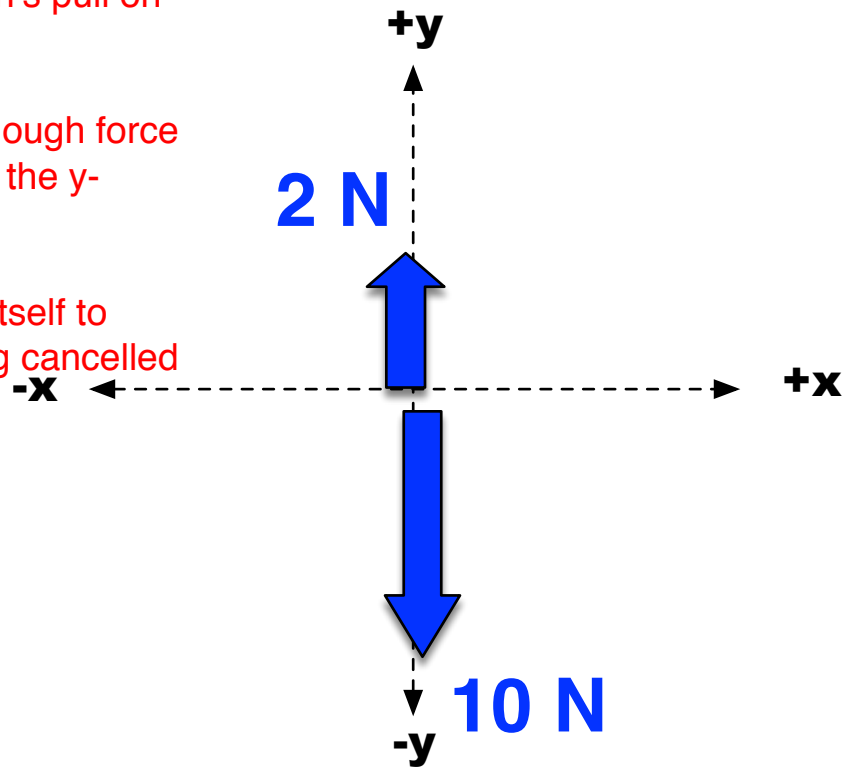


1. Put the weight and the person's pull on the diagram.

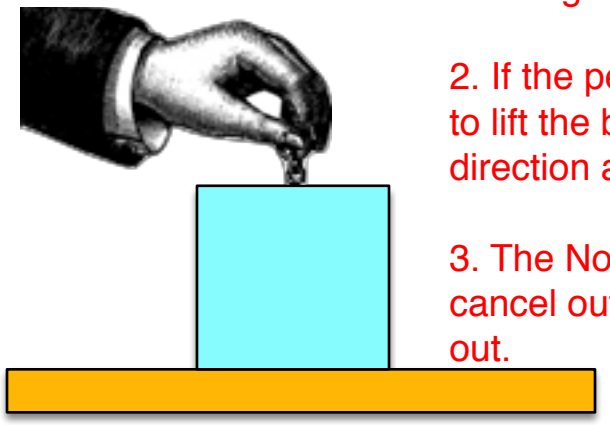
2. If the person does not use enough force to lift the box, then the forces in the y-direction are still cancelln out.

3. The Normal force will adjust itself to cancel out whatever is not being cancelled out.

(see next page)



The box weighs 10 N.
The person pulls upward with a force of 2 N.
The box is at rest and staying at rest. Find the Normal Force.

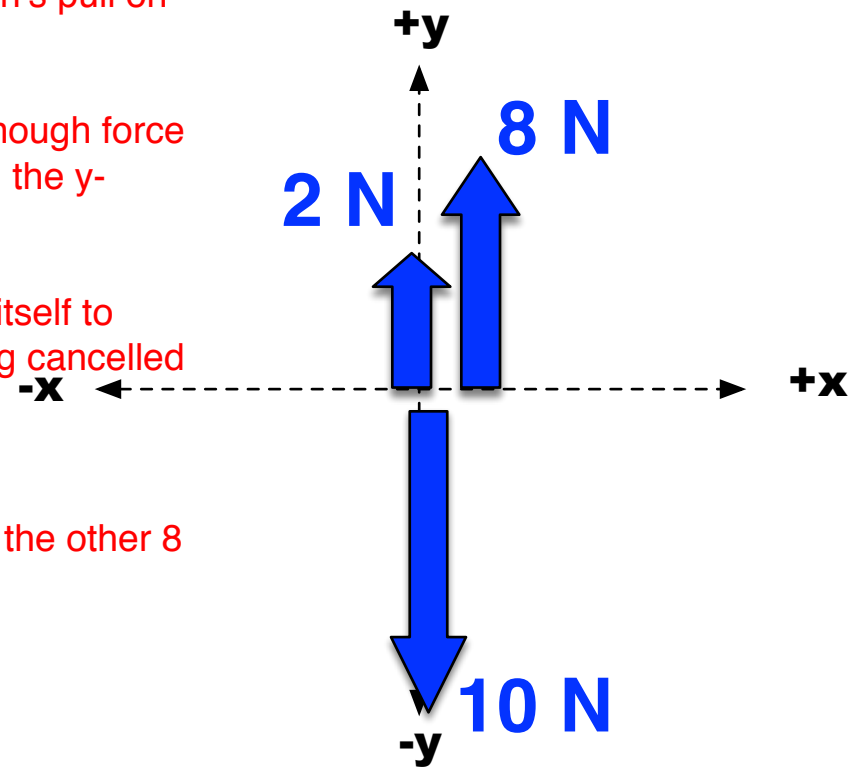


1. Put the weight and the person's pull on the diagram.

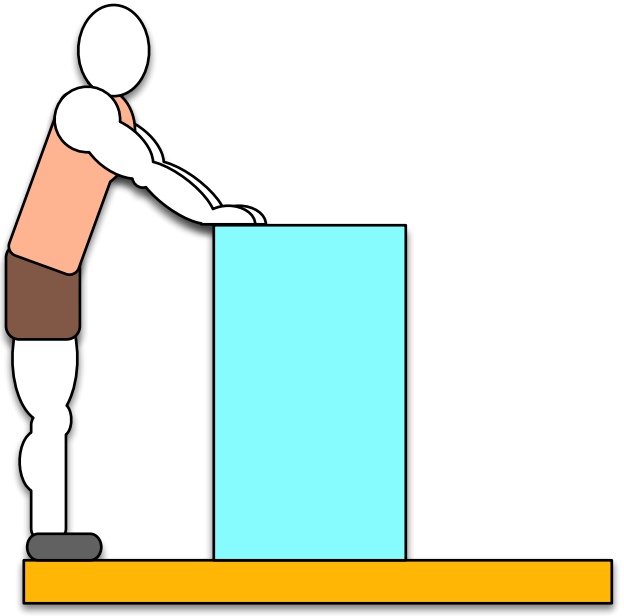
2. If the person does not use enough force to lift the box, then the forces in the y-direction are still cancelng out.

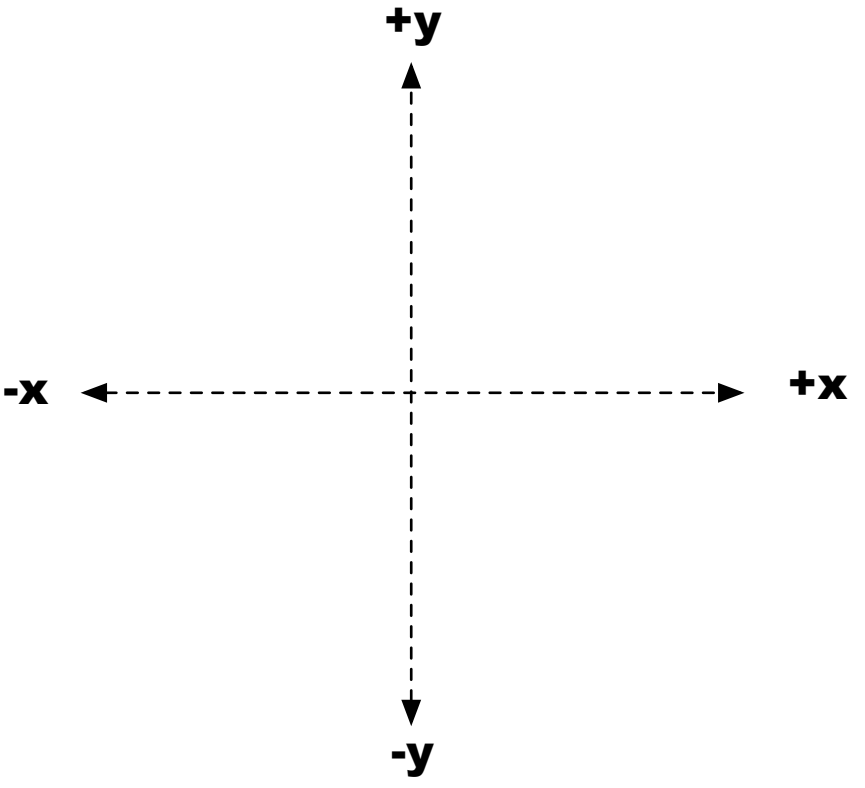
3. The Normal force will adjust itself to cancel out whatever is not being cancelled out.

4. Normal Force will cancel out the other 8 N.

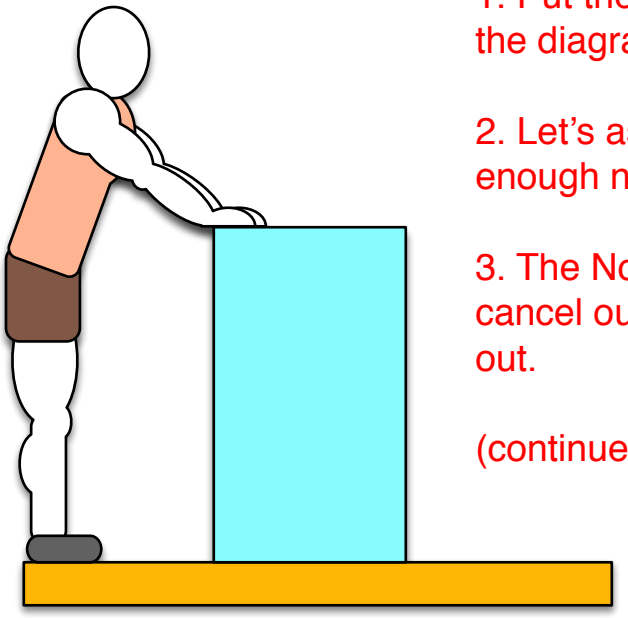


The box weighs 10 N.
The person pulls upward with a force of 2 N.
The box is at rest and staying at rest. Find the Normal Force. The Normal Force is 8 N.





The box weighs 100 N. The person pushes downward with a force of 30 N. The box is at rest and staying at rest. Find the Normal Force.

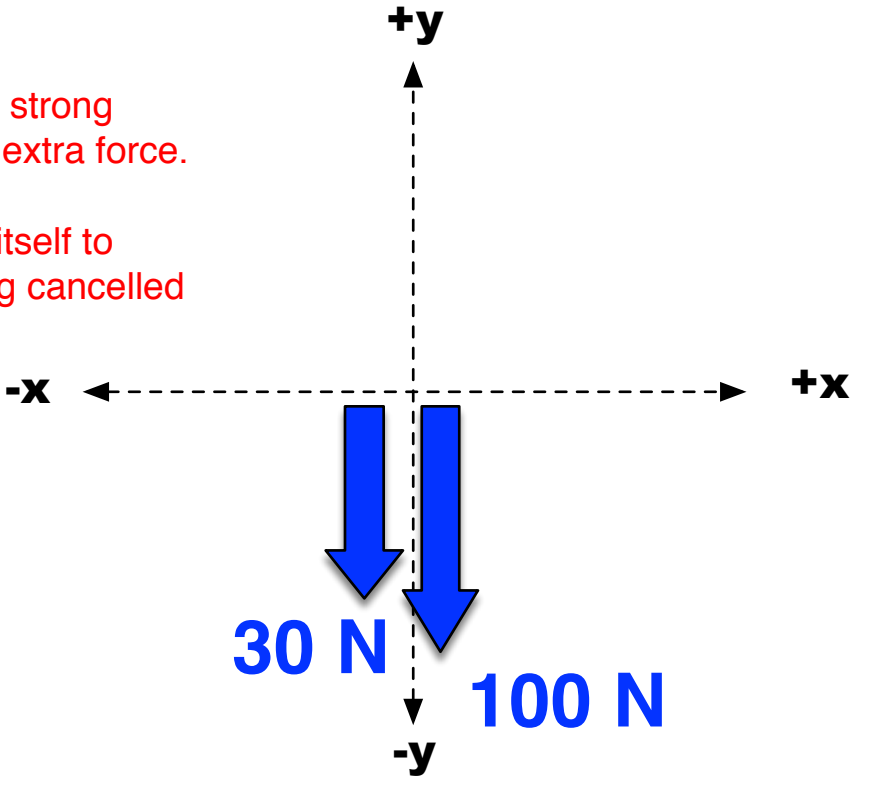


1. Put the weight and the person's push on the diagram.

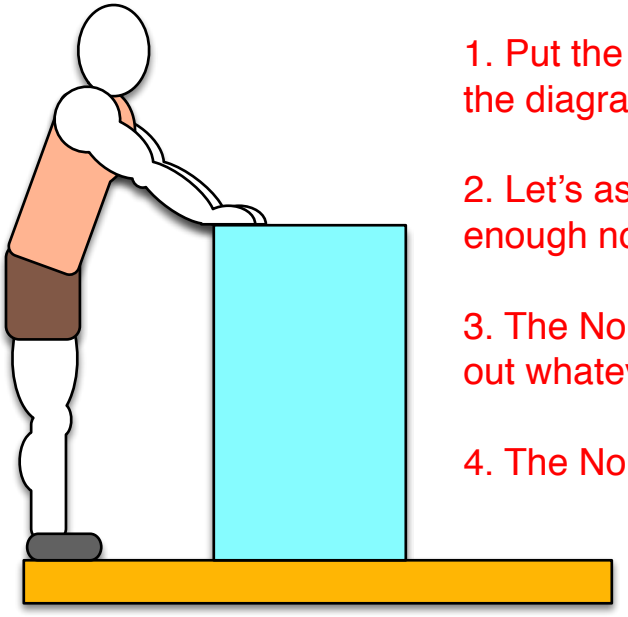
2. Let's assume that the floor is strong enough not to break due to the extra force.

3. The Normal force will adjust itself to cancel out whatever is not being cancelled out.

(continued on next page)



The box weighs 100 N. The person pushes downward with a force of 30 N. The box is at rest and staying at rest. Find the Normal Force.

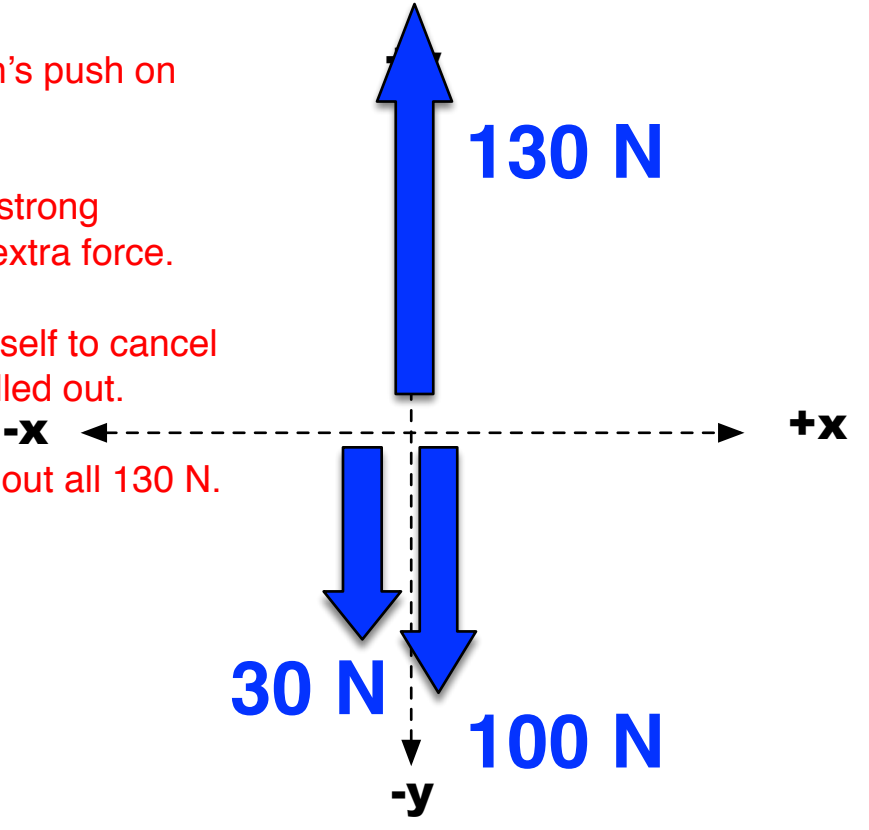


1. Put the weight and the person's push on the diagram.

2. Let's assume that the floor is strong enough not to break due to the extra force.

3. The Normal force will adjust itself to cancel out whatever is not being cancelled out.

4. The Normal Force will cancel out all 130 N.



The box weighs 100 N. The person pushes downward with a force of 30 N. The box is at rest and staying at rest. Find the Normal Force.

The Normal Force is 130 N