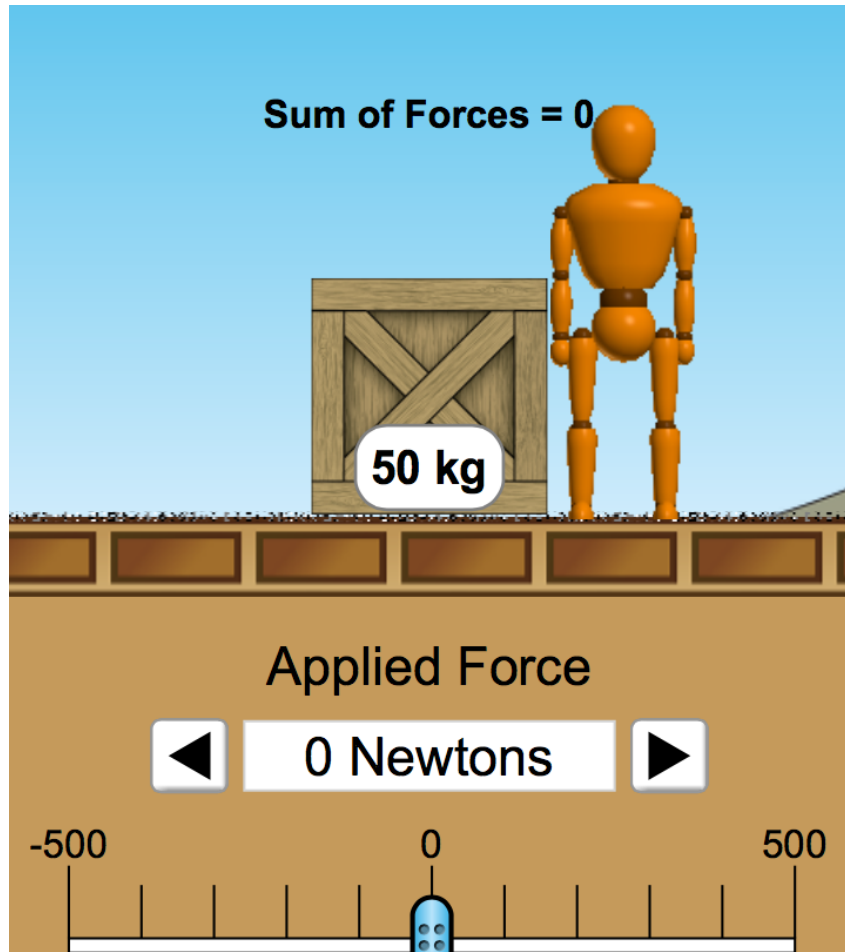
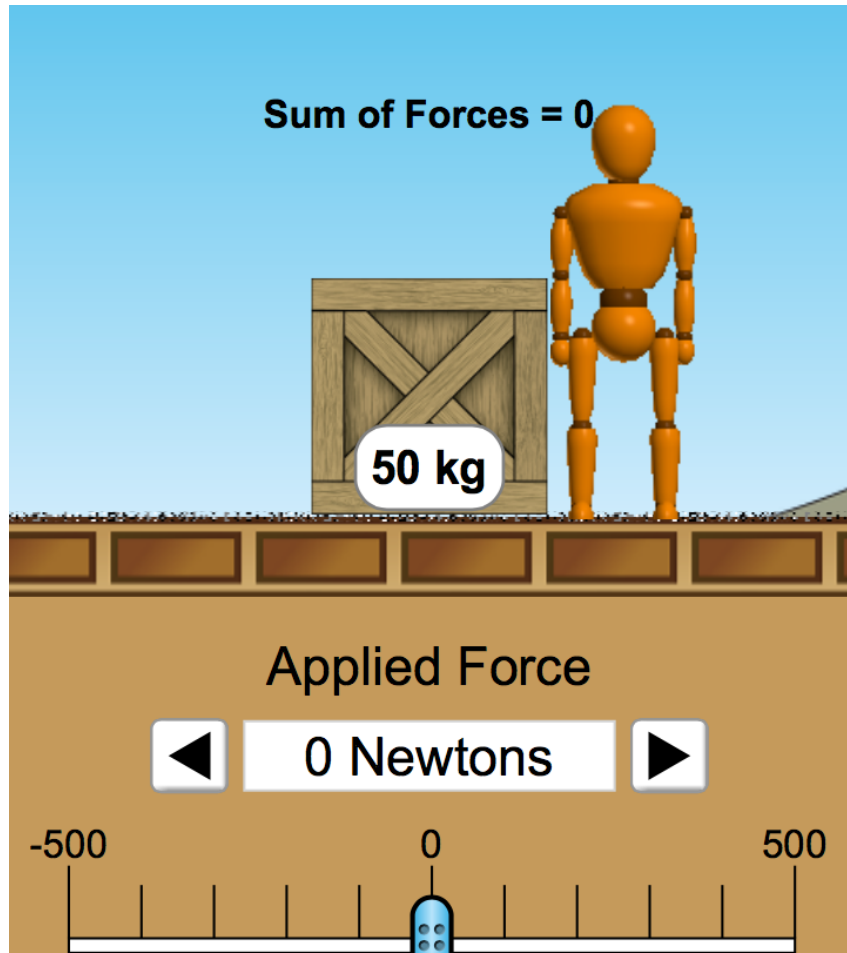


Phet Physics: Friction



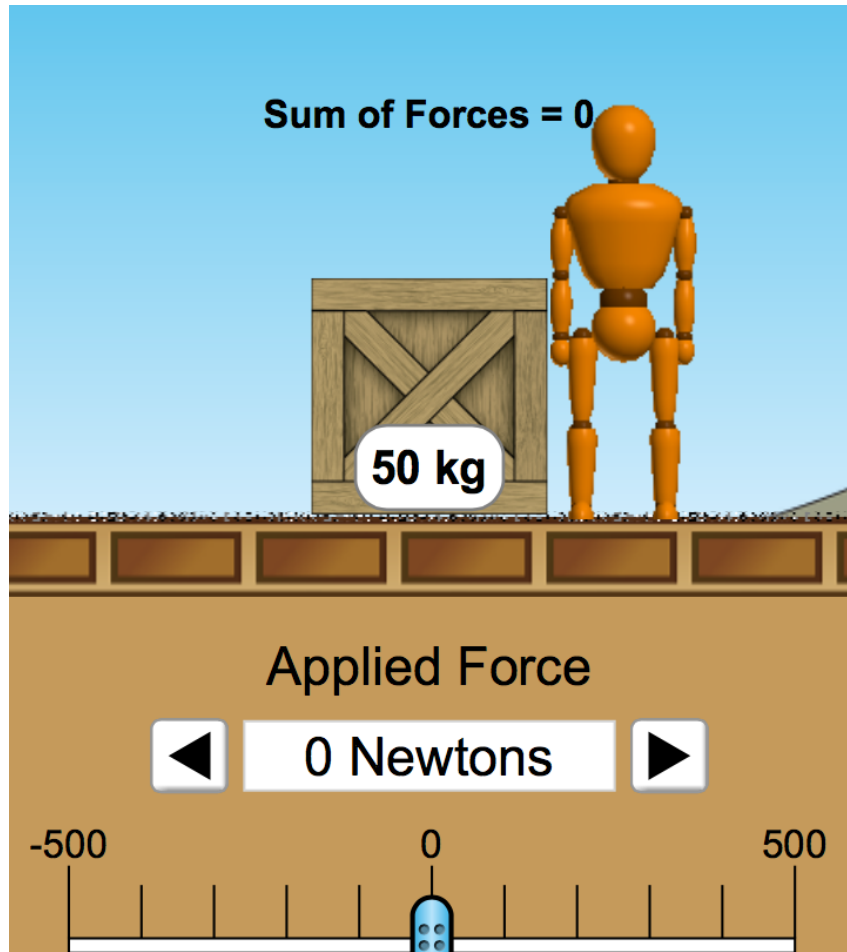
- If you push a box to the right, which direction does friction act in?
- If you push a box to the left, which direction does friction act in?
- Is there a maximum amount of friction on the 50kg box?
- Which has more maximal friction, the box or the refrigerator?
- In order for the box to move what can you say about the force of friction versus the force you are pushing with?

Phet Physics: Forces



- Go to the Phet Simulation and click on the **Net Force** **tab**. Make sure the boxes that say “sum of forces” and “values” are check-marked.
- Set it up so that 150N of force is pulling left and 50N is pulling right. What is the net force?
- Set it up so that there is 300N of force pulling to the right and 150N of force pulling to the left. What is the net force?
- How is net force calculated?

Phet Physics: Gravity



- Increasing the mass does what to the force of gravity?
- Decreasing the mass does what to the force of gravity?
- Decreasing the distance between two objects does what to gravity?
- Increasing the distance between two objects does what to gravity?
- Set the blue ball to 100kg and the red ball to 1kg. Which one has more gravity?
- Does gravity obey Newton's third law? Explain.