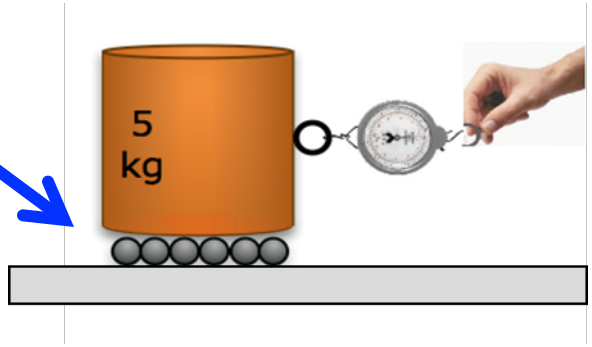
Very good wheels.
Ignore friction
With the table.

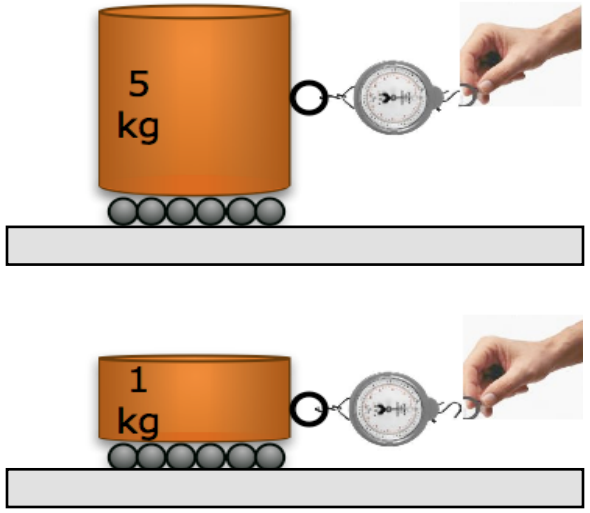
System Schema



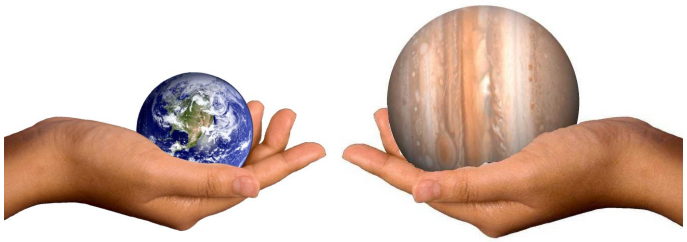
Free-Body Diagram

You are pulling two blocks along a table with the same (constant) acceleration.
Which requires a larger force?

A. The 1 kg weight block
B. The 5 kg weight block
C. The require the same force.
D. There is not enough information to tell.

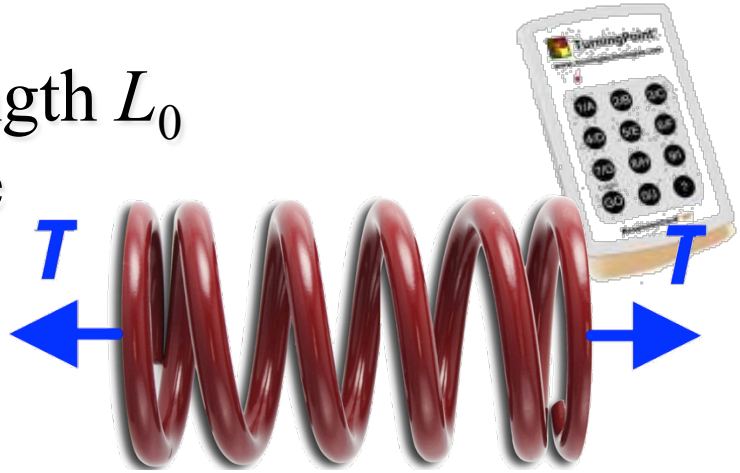


The prof drops two metal spheres, one of 1 kg, the other of 5 kg. They hit the ground at (almost) exactly the same time. The force responsible for speeding up the 5 kg weight is:

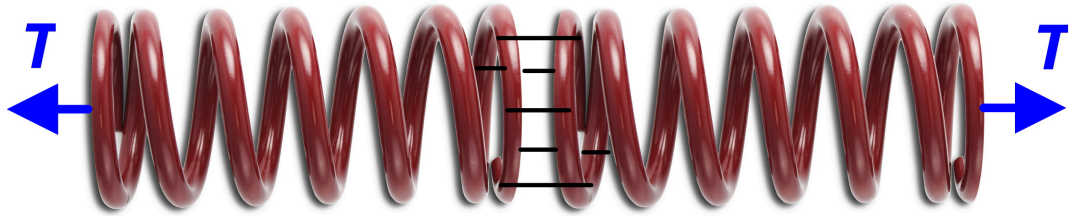


A. Greater than the force pulling on the 1 kg weight
B. Less than the force pulling on the 1 kg weight
C. Almost the same as the force pulling on the 1 kg weight.
D. There is not enough information to tell.

Consider a single spring with rest length L_0 and spring constant k as shown at the right. If we pull on it from opposite sides with a tension T is stretches by ΔL where $T = k\Delta L$.



Suppose two such identical springs are connected as shown. How much would they stretch if pulled by a tension force T?



A. L_0
B. ΔL
C. $2\Delta L$
D. $\Delta L/2$
E. Something else