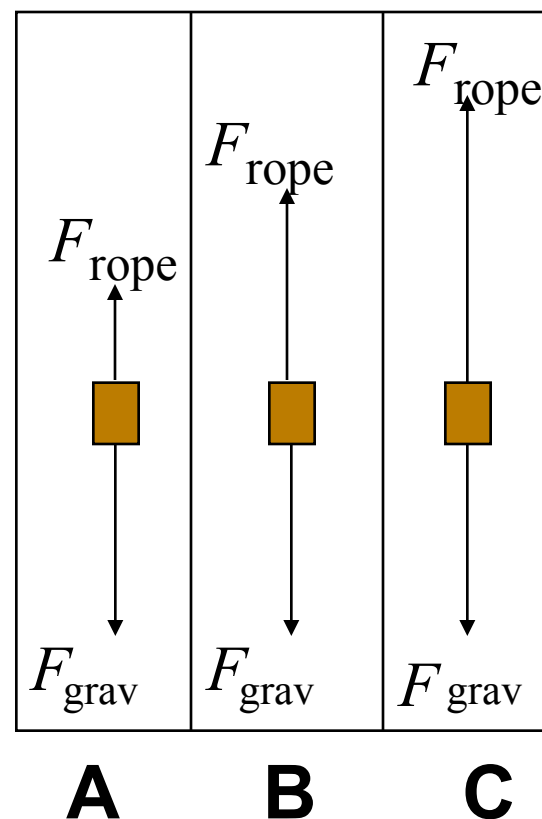




Suppose a block is being raised by a rope **at constant speed.**

Which is the correct free-body diagram of the block?



The professor drops two spheres, one of 1 kg, the other of 5 kg. They hit the ground at (almost) exactly the same time. The force of gravity on the 5 kg weight is:



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