# PHYS 211:  Quiz 5

## May 22, 2012

- Two blocks are tied to a third block with two separate strings, and the assembly is strung over two pulleys on the edges of a table with the center block sitting on the table as shown. Assume that the pulleys are massless and frictionless and the strings are massless and frictionless.
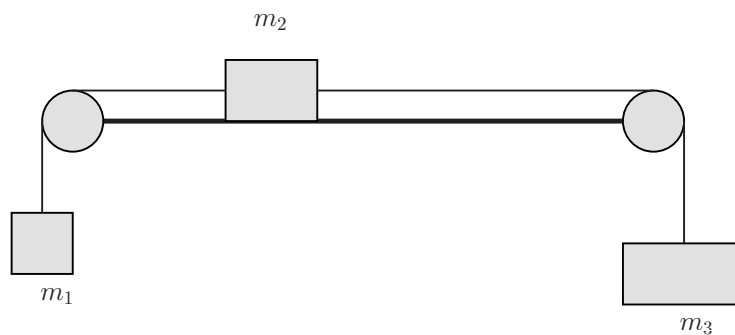


Figure 1: Three blocks and two pulleys.

1. Draw all the forces acting on each of the blocks.
2. Write down Newton's equation ($F = ma$) for each block while clearly indicating the direction of acceleration you are assuming.
3. There is no need to solve the equations.