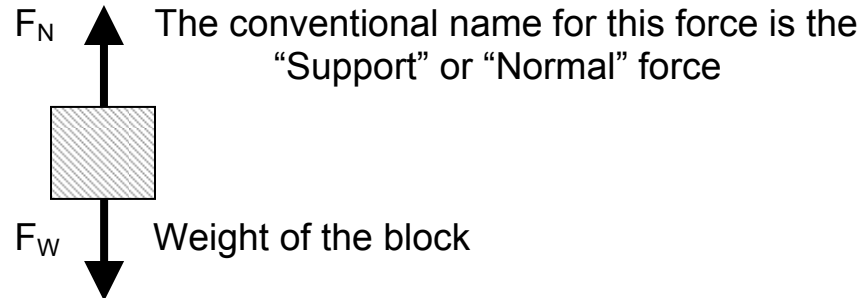


## Homework #4 Solution

1. The two forces below balance and equilibrium results:



2. The scale will read 10 N, the same as it would read if one of the ends were tied to a wall instead of tied to the other 10 N hanging weight. Although the net force on the system is zero, the tension in the rope within the system is 10 N, as shown on the scale reading.

