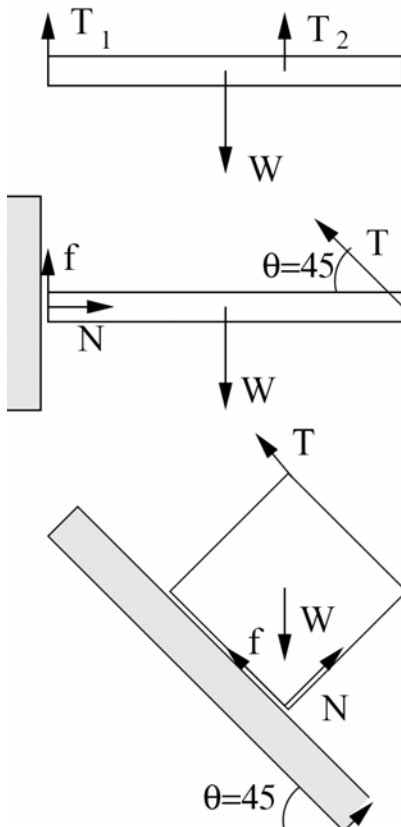


Wednesday March 15, 2006
 In Lecture quiz #8, Physics 131
 Name: _____

The pictures below illustrate three rigid bodies. You should assume that they are “in equilibrium.” Circle the correct answers.



- A. $T < W/2$
 B. $T = W/2$
 C. $T > W/2$

A. Clearly $T_1 + T_2 = W$. T_2 must be bigger than T_1 (consider the torques around the CM. T_1 and T_2 have to exert equal and opposite torques.)

- A. $f < W/2$
 B. $f = W/2$
 C. $f > W/2$

B. $T_y + f = W$, and T_y must equal f because their torques around the CM have to be equal.

- A. $T < W/2$
 B. $T = W/2$
 C. $T > W/2$

A. Actually, $T = 0$. Consider the torque around the lower corner where f and N are operating. Only T exerts a torque, so T must be 0.