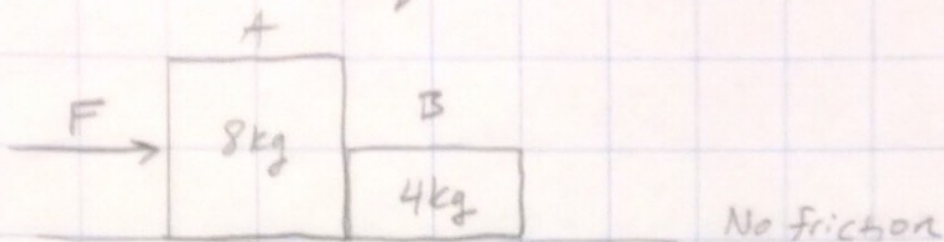
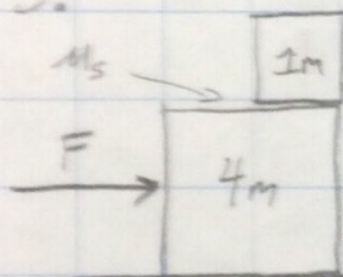


# Net Force Equations Homework



1. What percent of ' $F$ ' is the push force of A on B?
2. A hockey puck slides to a stop on a wooden floor  $\mu_k = .2$ . No forces other than friction act on the puck. The puck has initial velocity  $30 \text{ m/s}$ . What is the time required for the puck to stop?

3.

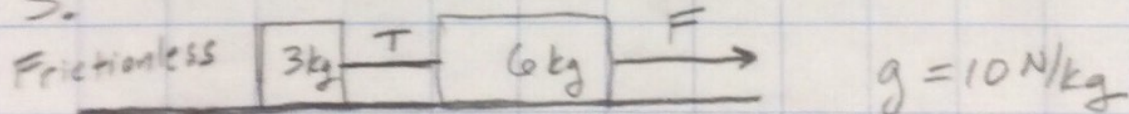


A  $1\text{m}$  block maintains static friction with a  $4\text{m}$  block, however there is no friction between the  $4\text{m}$  block and the ground. Find  $\mu_s$

between the blocks given that  $m = 6\text{kg}$ ,  $g = 10 \text{ N/kg}$  &  $F = 16 \text{ N}$ .

4. For #3, now assume there is friction between the  $4\text{m}$  block and the ground such that  $\mu_s = \mu_k$ . What is the force accelerating the  $1\text{m}$  block?

5.



What percent of the applied force ' $F$ ' is the tension force ' $T$ ' in the rope connecting the two blocks?

6. True or False

Pulleys change the direction of tension force in a rope.