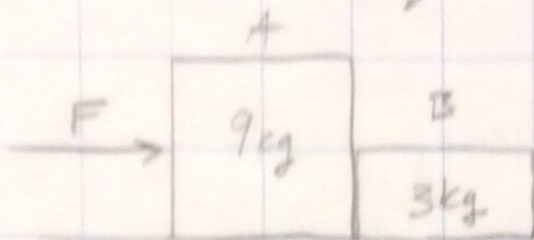


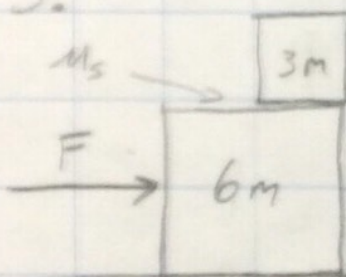
Net Force Equations Worksheet



No friction

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 $\mu_k = .3$. No forces other than friction act on the puck. The puck has initial velocity 60 m/s . What is the time required for the puck to stop?

3.

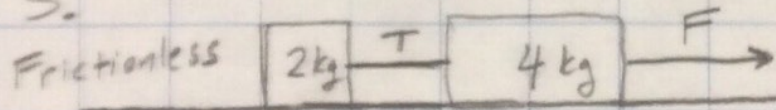


A 3m block maintains static friction with a 6m block, however there is no friction between the 6m block and the ground. Find μ_s

between the blocks given that $m = 2 \text{ kg}$, $g = 10 \text{ N/kg}$ & $F = 20 \text{ N}$.

4. For #3, now assume there is friction between the 6m block and the ground such that $\mu_s = \mu_k$. What is the force accelerating the 3m block?

5.



$g = 10 \text{ N/kg}$

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

6. True or False

Friction always opposes the direction of motion.