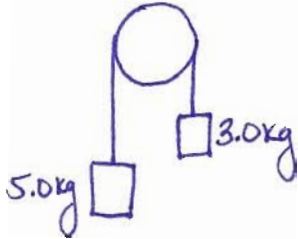


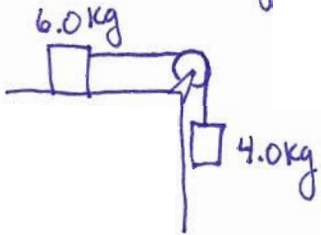
Name: _____

Connected Objects & Inclined Planes (CO & IP)

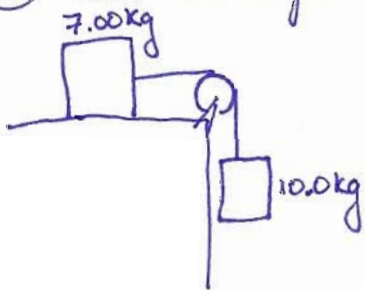
- ① Find the magnitude of the acceleration & the tension in the string for the following:



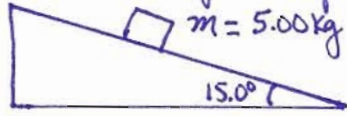
- ② Find the magnitude of the acceleration & the tension in the string. No Friction



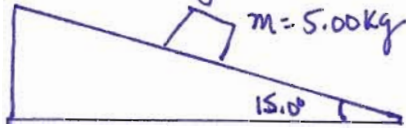
- ③ Find the magnitude of the acceleration & the tension in the string. $\mu_k = 0.285$



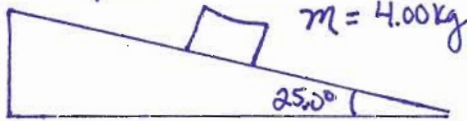
④ Find the magnitude of the acceleration. No friction.



⑤ Find the magnitude of the acceleration. $\mu_k = 0.120$



⑥ Find μ_k such that the block slides at constant velocity.



⑦ If $\mu_s = 0.520$, at what angle will the block start to slip? (Hint: $\sin\theta/\cos\theta = \tan\theta$)

