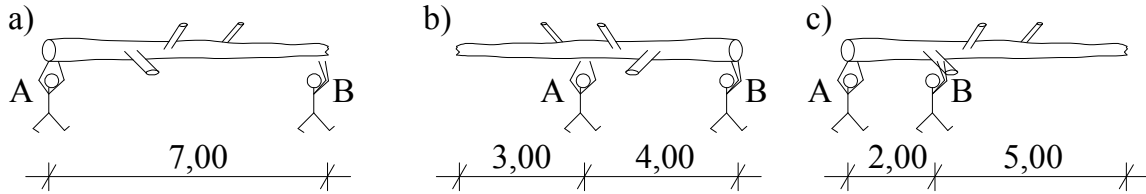


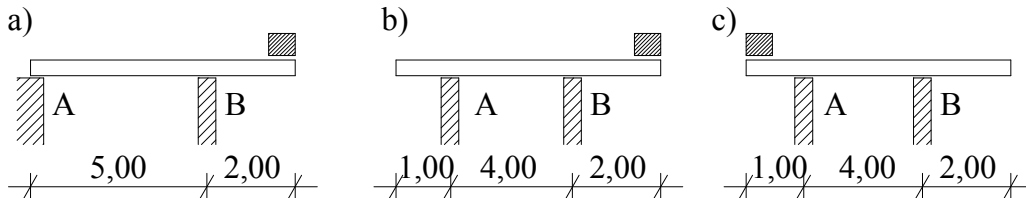
Practice exercise to Blackboard exercise No 6

- 1) The unit weight of the beam is 0,2 kN/m. Make a drawing of the beam with all forces!  
Which person feels that it is heavier? How much weight are they carrying?

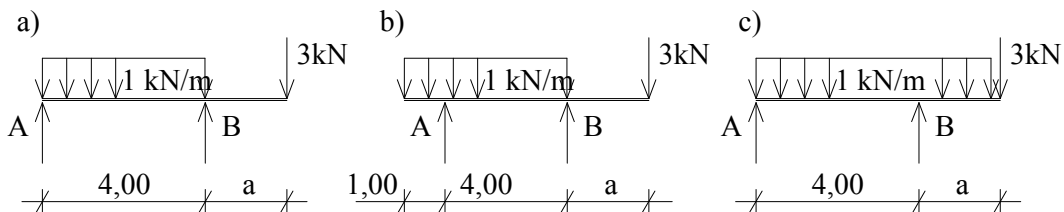


- 2) The unit weight of the beam is 1 kN/m. The weight of the box is G.  
How much is the maximum of G, if the beam does not fall?  
Make a drawing with all forces!

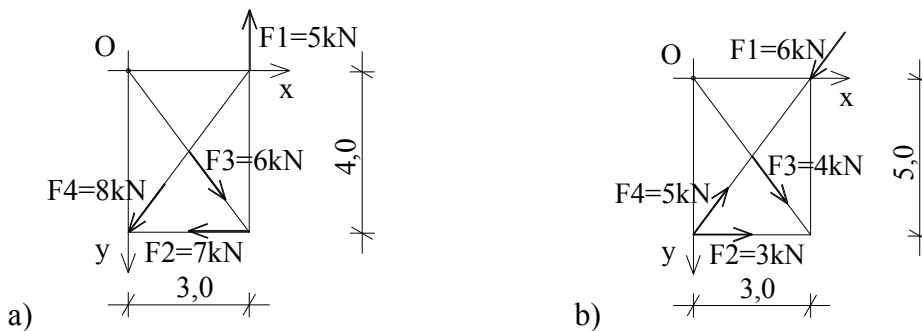
(G is maximal if  $A = 0$ . Beam falls if  $A < 0$ .)



- 3) What is  $a_{max}$ , if  $A=0$ ?



- 4) Determine the moments of the forces about O !



- 5)  $F_1=?$ ,  $F_2=?$ ,  $\alpha=?$  if the box is in equilibrium?

