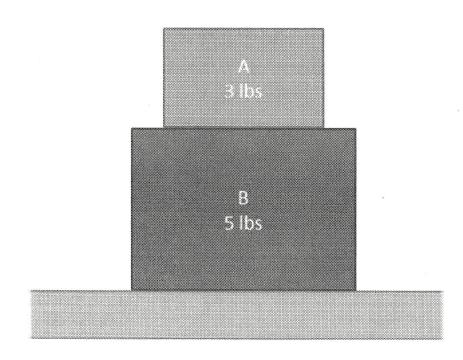
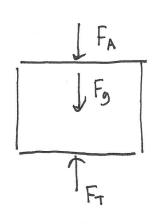
Question 1:

The diagram below shows a 3lb box (Box A) sitting on top of a 5lb box (box B). Determine the magnitude and direction of all the forces acting on box B.



Calculations:



$$F_{A} = 3 lbs$$

 $F_{G} = 5 lbs$
 $\Sigma F_{Y} = F_{T} - F_{A} - F_{G} = 0$
 $F_{T} - 3 - 5 = 0$
 $F_{T} = 8 lbs$

Solutions: