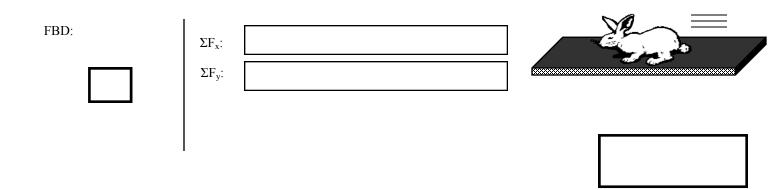
1. What is the acceleration of a 10.0-kg turkey if 70.0 N of force are applied to it horizontally? The turkey rests on a table where the coefficient of kinetic friction is 0.3 and the coefficient of static friction is 0.5.

FBD:  $\Sigma F_x:$   $\Sigma F_y:$ 

2. The rabbit of death hits a patch of ice while chasing a victim. In coming to a stop his acceleration was 2.94 m/s². What was the coefficient of kinetic friction?



3. A flat bed truck with a crate of vampire gazelles on it is speeding carelessly along the highway at 50 m/s! The coefficient of static friction between the crate and truck bed is 0.1. What is the maximum acceleration of the truck in order to keep the crate from sliding and setting the bloodthirsty gazelles loose on an innocent public?

FBD:  $\Sigma F_X:$   $\Sigma F_y:$ 

rests on a table wh	here the $\mu_k$ is 0.3 and the $\mu_s$ is 0.5. What is the acceleration of the turkey?
FBD:	$\Sigma F_X$ : $\Sigma F_y$ :
4. What is the acceler	ration of the 22 kg gazelle (Assume it will move.) Coefficient of kinetic friction is 0.65.
FBDs:	
	$\Sigma F_x$ : $\Sigma F_y$ : 750 N
	$\Sigma F_y$ :
	applied downward at a 25 degree angle made with respect to the horizontal onto a 10.0-kg black cat eat is on the floor where the $\mu_k$ is 0.3 and the $\mu_s$ is 0.5. How far will he slide after one minute?
FBD:	$\Sigma F_X$ : $\Sigma F_y$ :

4. A force of 70.0 N is applied up at a 25 degree angle made with respect to the horizontal onto a 10.0-kg turkey. The turkey