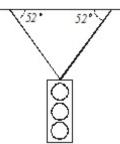
## WORKSHEET #2

Name:	
<b>1.</b> A frog jumps at an angle of 42.5° to the horizontal with a speed of 13.5 m/s. How far does it travel?	ı
2. A 450 kg mass is accelerated at 2.5 m/s². (a) What is the net force causing this acceleration? (b) How much distance will have been covered after 3.5 s?	
How much distance will have been covered after 5.5 5:	
3. A book sits on a table. The book has a mass of 1.25 kg. Draw a free body diagram of the thing.	
<b>4.</b> A boy pushes a lawnmower. The handle of the lawn mower makes an angle of 22° with the horizontal. If the boy pushes with a force of 135 N, what are the horizontal and vertical components the force?	of



**6.** A 50.5 kg traffic light hangs from two cables which are at the angles shown. Calculate the tensions in the two cables.