Physics Projectile Motion Problems

Nar	me:	Block:
1.	A cat runs and jumps from one roof top to another which is 5 meters as below. Calculate the minimum horizontal speed with which the cat mus roof in order to make it to the other.	way and 3 meters t jump off the first
2.	An object is thrown off a cliff with a horizontal speed of 10 m/sec. After hits the ground. Find the height of the cliff and the total horizontal distribution.	
		r
3.	If a marble is released from a height of 10 meters how long would it ta ground?	ke for it to hit the

4.	A ski jumper competing for an Olympic gold medal wants to jump a horizontal distance of 135 meters. The takeoff point of the ski jump is at a height of 25 meters. With what horizontal speed must he leave the jump?	of
5.	A motorcycle stunt driver zooms off the end of a cliff at a speed of 30 meters per second he lands after 0.75 seconds, what is the height of the cliff?	d. If
6.	A marble rolling at a speed of 2 meters per second falls off the end of a 1-meter high tal How long will the marble be in the air?	ble.
7.	Challenge! A marshmallow is dropped from a 5-meter high pedestrian bridge and 0.83 seconds later, it lands right on the head of an unsuspecting person walking underneath. tall is the person with the marshmallow on his head?	How