Worksheet I - Circular Motion		Name:	
UCONN	I Physics - Chapter 5	Date:	Period:
Direction	ons: Show all work neatly and organized, label all units a final answer(s).	as you are solvin	g the problems, circle
1.	A 13 gram rubber stopper is attached to 0.93 meter str circle, making one revolution in 1.18 sec. Find the tension stopper. (2 pts)	•	<u>₹</u>
2.	Consider the following changes to problem #1.  a. The mass is doubled, but all other quantities remain the velocity, acceleration, and force?(2pts)	the same. Wha	t would be the effect on
	b. The radius is doubled, but all other quantities remain the velocity, acceleration, and force?(2 pts)	the same. Wha	at would be the effect on
	c. The period of revolution is half as large, but all other be the effect on the velocity, acceleration, and force	•	ain the same. What would
3.	Racing on a flat track, a car going 32 m/s rounds a curve a. what is the car's centripetal acceleration? (2pts)	e 56 m in radius.	
	b. What minimum coefficient of static friction between the car to round the curve without slipping? (5 pts.)	the tires and ro	ad would be needed for