A Physics Interactive Quiz: Circular Motion Name:

))) 1)
	#	1	question	Answer			0	<score< td=""></score<>
#	1	5	kg is the mass of a bucket swinging parallel to the ground with velocity 8 m/s and radius 1.2 meters. Find the centrifugal force on the bucket		266.67	100	0	
,,	•		What is the period of the bucket above?			100		
#	2	5			0.942	100	0	
#	3	5	The same bucket is now swung perpendicular to the ground. What is the period needed to keep the bucket from splashing the spinner?		2.1975	100	0	
	_	_	When just weightless at the top, what will be the tension in the rope at the bottom?				_	
#	4	5			98	100	0	
#	5	1200	kg is the mass of a car rounding a non-banked 200 m turn at 40 m/s. Find the μ required to stay on the road.		8.16e-1	100	0	
#		100	meters is the radius of a wheel shaped space station with 0.2 g near the rim. Find the period of the space station		44.857	100	0	
#	U	100	find the velocity of an astronaut on this rim		44.037	100	O	
#	7	100			14	100	0	
			kg is the mass of the astronaut. Find her weight in Newtons				_	
#	8	50			98	100	0	
		_	kg is the mass of your waterbottle on planet Zot, where Mz is 12 ee 24 kg and Rz is 8 ee 6 m. Find the force on your waterbottle		50.00 5		-	
#	9	4			50.025	100	0	
			times the radius of the earth around the sun a new planet is discovered. What will its period be in days?					
#	10	2			1032.4	100	0	

Extra Credit: Explain how cars can become weightless driving over small hills in the road