Data							
Gravitational constant, (g), N/kg	9.81						
Rotating mass(m), g	15	= 0.015kg					
Counterweight(M), g	25	= 0.025kg					
Radius(r), cm	30	= 0.30m					
Circumference = 2πr = 2 x π x 0.30 m	1.88						
10 x Circumference, m	18.84						
Measurements							**Average**
Time for 10 revolutions, s	**Run 1**	**Run 2**	**Run 3**	**Run 4**	**Run 5**	**Run 6**	**time,s**
	8.40	8.30	8.40	8.20	8.30	8.40	8.33
Velocity(v), m/s							
=10 x Circumference/Average time	= 18.84x10/8.33	= **2.25m/s**					
Tension = Mg	= 0.025x9.81	**= 0.245N**					
Calculated value of mv^2/r	= $0.015x2.25^2/0.30$	**= 0.253N**					