

Results Table: Read the Analysis section before completing this Table **ALL entries must show 4 Sig Figs in this Table.**

	M*	W*	P	ω	ω^2	m*	sin(θ)	θ	r_c	F_c	v
	Mass	Weight	Period	Angular Velocity	Angular Velocity Squared	mass	(Use m value from the slope of the line in Graph II)		Radius	$m r_c \omega^2$	$v = r_c \omega$
Number of Washers	String, Washers & Paperclip <i>(kg)</i>	String, Washers & Paperclip <i>(newtons)</i>	time for 1 Revolution <i>(seconds)</i>	(of the stopper) <i>(rad/sec)</i>	<i>(rad/sec)²</i>	(of Stopper, from Equation I) <i>(kg)</i>	sin(θ)=(m/M)	<i>(degrees)</i>	(= cos θ) (= $\sqrt{1-\sin^2\theta}$) <i>(meters)</i>	(use average mass from below table) <i>(newtons)</i>	(Velocity of the stopper) <i>(m/s)</i>
10	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
15	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
20	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
25	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
30	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
35	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
40	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
45	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
50	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
55	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

m_{AVE} (mass of stopper + 1/3rd mass of 1 meter of string) = _____ kg

* Remember that **M** and **W** include the washers, the hanging string, and a paperclip. About 1/3rd of the mass of one meter of string (about 1/3rd gram) is included in the calculated mass, **m** and **m_{AVE}**, of the stopper. Use **g** = 9.795 m/s² = 9.795 N/kg when computing **W**.