

	A	B	C	D	E	F	G	H	I	J	K
1	Your name		Date								
2	Partner's name										
3											
4	Phys 1101/1120 - Richmond campus				DISCLAIMER: These example data are purposefully inaccurate. You may test your spreadsheet equations for correctness using these values, but your real experimental values will be very different.						
5	Expt. 7: Uniform Circular Motion										
6											
7	DATA:										
8											
9	Hanging mass:				Trolley mass:			Acceleration due to gravity:			
10	m_h (g)	dm_h (g)	(dm/m)_h		m_t (g)	dm_t (g)	(dm/m)_t		g (m/s^2)	dg (m/s^2)	dg/g
11	73	0.05	0.07%		100	0.05	0.05%		9.81	0.01	0.10%
12											
13	Period of rotation:				Radius of rotation:						
14	T (s)	dT (s)	dT/T		r (cm)	dr (cm)	dr/r				
15	1.04	0.0104	1.00%		20	1	5.00%				
16											
17	CALCULATIONS:										
18											
19	Hanging mass:				Trolley mass:			Force due to hanging mass:			
20	m_h (kg)	dm_h (kg)	(dm/m)_h		m_t (kg)	dm_t (kg)	(dm/m)_t		F_g (N)	dF_g (N)	(dF/F)_g
21	0.073	0.00005	0.07%		0.1	0.00005	0.05%		0.71613	0.0008795	0.12%
22											
23					Radius of rotation:			Net Force:			
24					r (m)	dr (m)	dr/r		F_n (N)	dF_n (N)	(dF/F)_n
25					0.2	0.01	5.00%		0.7300003	0.0393134	5.39%