

DATA SHEET

M9

 Name

 Date

 Section

Simple Harmonic Motion

Section V-1

 Holder mass: $m_H =$ _____ g

 Spring mass: $m_S =$ _____ g

 Flag mass: $m_f =$ _____ g

Section V-2

 $x_0 =$ _____ (cm) $\sigma_{\phi} =$ _____ (cm)

#	m (g)	x_m (cm)	$x = x_0 - x_m$ (cm)
1	20.0		
2	40.0		
3	60.0		
4	80.0		
5	100.0		
6	120.0		

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#	m (g)	m_T (g)	C_1	C_2	C_3
1	40.0				
2	60.0				
3	80.0				
4	100.0				
5	120.0				

$$m_s = m_b + m + m_T$$

C_1 , C_2 , and C_3 are repeated counter readings.

$$N = \frac{2(C_1 - 1) + 1}{4}, \quad T = \frac{60.00}{N}$$

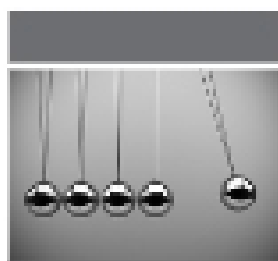
Section V-4

$$d = \text{_____ cm}$$

#	l' (cm)	$l = l' + d/2$ (cm)	C_1	C_2	C_3
1					
2					
3					
4					
5					
6					

C_1 , C_2 , and C_3 are repeated counter readings.

$$N = \frac{2(C_1 - 1) + 1}{4}, \quad T = \frac{60.00}{N}$$



$$W = \underline{\hspace{2cm}} \text{ cm}$$

$$m = 100.0 \text{ g}$$

#	t(s) from watch	δt (s) from timer	$v_m = \frac{W}{\delta t}$ (cm/s)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

NOTES:

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