Chapter 16

A spring stretches by 4 cm when a 10-g mass is hung from it. If a total mass of 25 g attached to this spring oscillates in simple harmonic motion, calculate the period of the motion.

A.	0.635	sec
	0.401	sec
۲.	0.854	sec
D.	1.000	sec
Ε.	0.250	sec

A small body is undergoing simple harmonic motion of amplitude A. While going to the right from the equilibrium position, it takes 1 second to move from x = + A/2 to x = + A. Find the period of motion.

A. 7.0 s
B. 8.0 s
C. 2.0 s
D. 4.0 s
E. 6.0 s

A body moves with simple harmonic motion. At t=0 it is released from rest at a displacement x=0.5 m. If the frequency of the oscillations is 5 Hz, find the the displacement x at t=0.02 s.

1	Α.	0.3 m		
I	3.	0.5 m		
	])	0.4 m		
I	<b>)</b> .	0.1 m		
I	Ξ.	0.2 m		

