

Chapter 12: Harmonic Motion & Wave Properties

PRINT Name _____ Period _____

ALWAYS SHOW THE METHOD-- Hup, Two, Three, Four.

1. Describe what Simple Harmonic Motion is and give Three examples.
2. Define: Amplitude, Frequency, and Period of Simple Harmonic motion.
3. Diagram and Label the parts of a Transverse Wave.
4. Write Galileo's Laws of the Pendulum and Define the parts of the Formula for the Period of the Pendulum.
5. Find the Period of a Pendulum whose length is 10.0m. Ans: 6.3s.
6. Calculate the Length of a Pendulum that has a Period of 5.0s. Ans: 6.2m.
7. Diagram a Longitudinal Wave and Label its parts.
8. Diagram the Differences between Amplitude Modulation (AM) and Frequency Modulation (FM).
9. Define these Properties and give an Example of each: a) Rectilinear Propagation, b) Reflection, c) Refraction, d) Diffraction, e) Interference, f) Impedance.
10. What is a Standing Wave and Describe the Two Parts of it.
11. Find the Frequency of a wave whose Wavelength is 25m and whose Speed is 350m/s. Ans: 14 Hz (cycles/sec).
12. Describe Resonance and give Three examples.