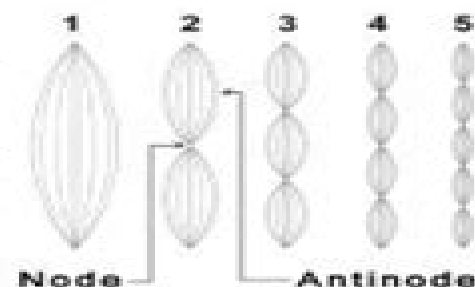


24.3 Standing Waves

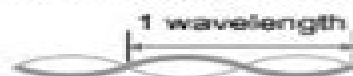
A wave that is confined in a space is called a **standing wave**. Standing waves on the vibrating strings of a guitar produce the sounds you hear. Standing waves are also present inside the chamber of a wind instrument.

A string that contains a standing wave is an oscillator. Like any oscillator, it has natural frequencies. The lowest natural frequency is called the **fundamental**. Other natural frequencies are called **harmonics**. The first five harmonics of a standing wave on a string are shown to the right.

There are two main parts of a standing wave. The **nodes** are the points where the string does not move at all. The **antinodes** are the places where the string moves with the greatest amplitude.

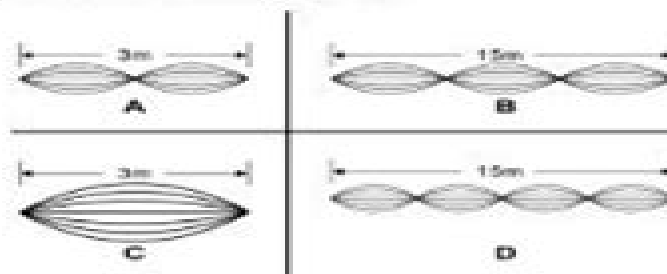


The wavelength of a standing wave can be found by measuring the length of two of the “bumps” on the string. The first harmonic only contains one bump, so the wavelength is twice the length of the individual bump.



PRACTICE

- Use the graphic below to answer these questions.
 - Which harmonic is shown in each of the strings below?
 - Label the nodes and antinodes on each of the standing waves shown below.
 - How many wavelengths does each standing wave contain?
 - Determine the wavelength of each standing wave.



Standing Waves 3 Key

Y Pai



Standing Waves 3 Key:

□□□□□□□□□□□□ □□,□□,□□□,2022-04-01 14 5 *Guide for Naval Reserve Training Afloat* United States. Bureau of Naval Personnel,1959 *The Shock and Vibration Digest* ,1989-07 *Quasi-periodic Standing Wave Solutions of Gravity-Capillary Water Waves* Massimiliano Berti,Riccardo Montalto,2020-04-03 The authors prove the existence and the linear stability of small amplitude time quasi periodic standing wave solutions i e periodic and even in the space variable x of a 2 dimensional ocean with infinite depth under the action of gravity and surface tension Such an existence result is obtained for all the values of the surface tension belonging to a Borel set of asymptotically full Lebesgue measure **Vol 06:**

Oscillations & Waves : Adaptive Problems Book in Physics for College & High School SATYAM SIR,2021-11-26 This book will cover the following Chapter s Oscillations Waves This book contains Basic Math for Physics Vectors Units and Measurements It is divided into several subtopics where it has levelwise easy medium and difficult problems on every subtopic It is a collection of more than 300 Adaptive Physics Problems for IIT JEE Mains and JEE Advanced NEET CBSE Boards NCERT Book AP Physics SAT Physics Olympiad Level questions Key Features of this book Sub topic wise Questions with detailed Solutions Each Topic has Level 1 Level 2 Questions Chapter wise Test with Level 1 Level 2 Difficulty NCERT BOARD Level Questions for Practice Previous Year Questions JEE Mains Previous Year Questions JEE Advanced Previous Year Questions NEET CBSE More than 300 Questions from Each Chapter About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit www.physicsfactor.com or whatsapp to our customer care number 91 7618717227 **Fundamentals of Physics, Extended** David

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