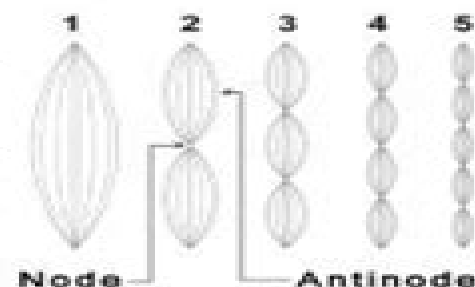


24.3 Standing Waves

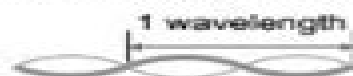
A wave that is confined in a space is called a **standing wave**. Standing waves on the vibrating strings of a guitar produce the sounds you hear. Standing waves are also present inside the chamber of a wind instrument.

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.

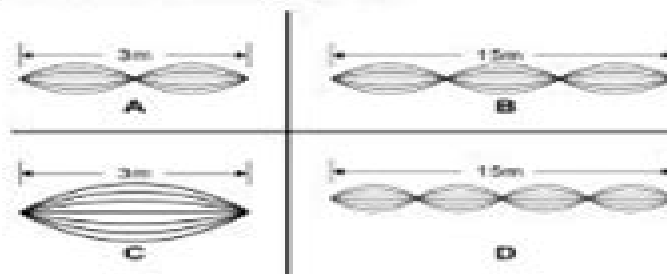


The wavelength of a standing wave can be found by measuring the length of two of the “bumps” on the string. The first harmonic only contains one bump, so the wavelength is twice the length of the individual bump.



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

Mike Jess

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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