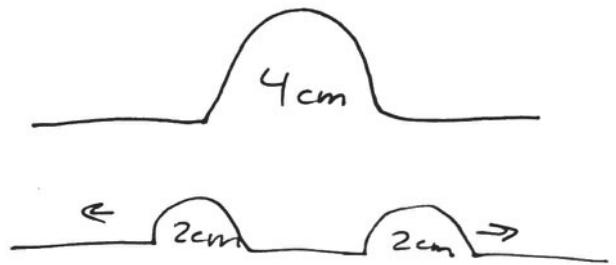
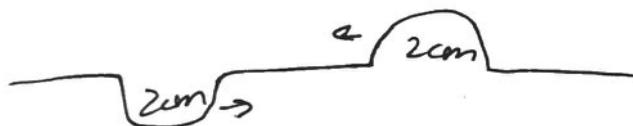


1. Diffraction- When the waves spread out through a small opening.
2. The waves are coming from the opening itself- the waves are coming from the ocean.
3. This also happens with sound waves.

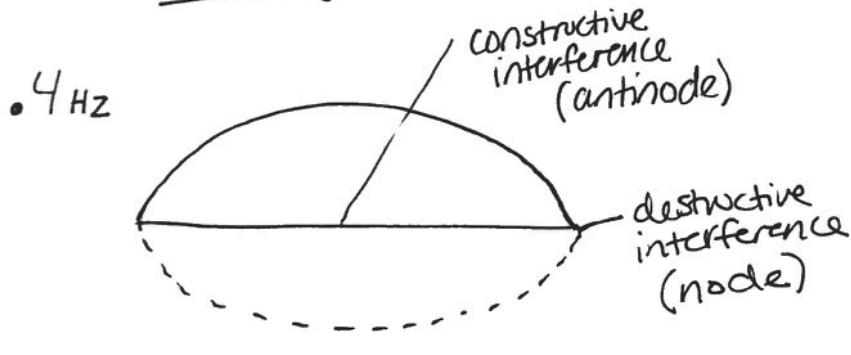
Constructive interference



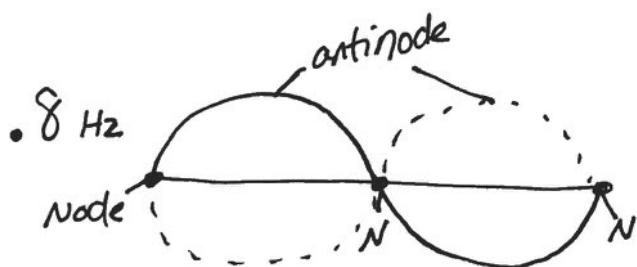
Destructive interference



Standing Waves



fundamental harmonic
↳ 1st point of resonance
1st harmonic (overtone)



2nd harmonic (overtone)

1.2 Hz



3rd harmonic
(overtone)

To find the frequency at a certain harmonic, multiply the fundamental frequency by the harmonic (# of antinodes).



How did the boy break the glass with his voice?

- The frequency of his voice matched the fundamental harmonic of the glass.
- Constructive interference