

## Waves-Wave Behaviors

1. While playing, two children create a standing wave in a rope, as shown in the diagram below. A third child participates by jumping the rope.



What is the wavelength of this standing wave?

1. 2.15 m
  2. 4.30 m
  3. 6.45 m
  4. 8.60 m
2. The diagram below shows two pulses approaching each other in a uniform medium.



Which diagram best represents the superposition of the two pulses?



3. Sound waves strike a glass and cause it to shatter. This phenomenon illustrates
1. resonance
  2. refraction
  3. reflection
  4. diffraction

4. A sound of constant frequency is produced by the siren on top of a firehouse. Compared to the frequency produced by the siren, the frequency observed by a firefighter approaching the firehouse is

1. lower
2. higher
3. the same

5. The superposition of two waves traveling in the same medium produces a standing wave pattern if the two waves have

1. the same frequency, the same amplitude, and travel in the same direction
2. the same frequency, the same amplitude, and travel in opposite directions
3. the same frequency, different amplitudes, and travel in the same direction
4. the same frequency, different amplitudes, and travel in opposite directions

6. The diagram below represents a standing wave.



The number of nodes and antinodes shown in the diagram is

1. 4 nodes and 5 antinodes
  2. 5 nodes and 6 antinodes
  3. 6 nodes and 5 antinodes
  4. 6 nodes and 10 antinodes
7. A car's horn is producing a sound wave having a constant frequency of 350 hertz. If the car moves toward a stationary observer at constant speed, the frequency of the car's horn detected by this observer may be
1. 320 Hz
  2. 330 Hz
  3. 350 Hz
  4. 380 Hz
8. Standing waves in water are produced most often by periodic water waves
1. being absorbed at the boundary with a new medium
  2. refracting at a boundary with a new medium
  3. diffracting around a barrier
  4. reflecting from a barrier

# Energy Light Wave Behavior Worksheet Answer Key

**Robert R. Redfield**



## **Energy Light Wave Behavior Worksheet Answer Key:**

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