

31.6: General Questions

1. Sketch the original wave and its reflection for the two bump wave. Indicate locations on the spring where you would place a bell, while the two bump wave is sustained, if you wanted the bell to ring as quietly as possible. Are these locations nodes or antinodes?
2. Sketch the original wave and its reflection for the three bump wave. Indicate locations on the spring where you would place a bell, while the three bump wave is sustained, if you wanted the bell to ring as loudly as possible. Are these locations nodes or antinodes?
3. Explain why the bell would ring quietly in certain locations on the spring, and loudly in certain locations on the spring, while a standing wave is sustained.
4. Standing waves of air molecules are produced in some wind instruments. Do you think the holes of a wind instrument are placed at the nodes or antinodes? Defend your answer.

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