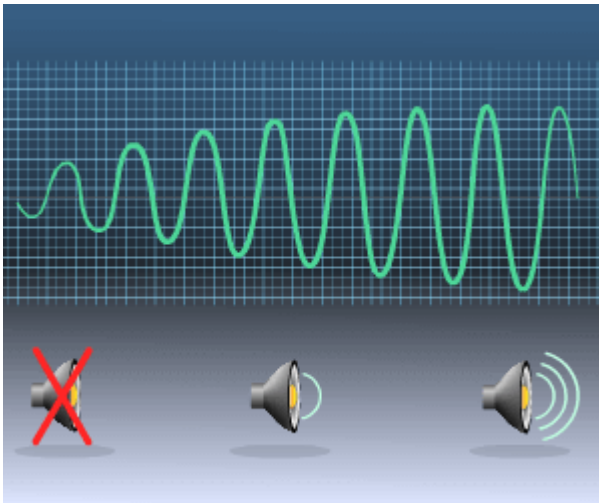


Sound Part 2

State whether the following statement is true or false.

1. Every sound has a frequency. Some frequencies can be heard by people, while others cannot be.



- True
 False

2. When a radio speaker vibrates, it collides with nearby molecules in the air, transferring some of its energy to them.

- True
 False

Choose the correct answer.

3. Why does sound travel faster in liquids and solids than in gases?

- There is more space between the molecules in liquids and solids than in gases.
- There is less space between the molecules in liquids and solids than in gases.

State whether the following statement is true or false.

4. Sound is a mechanical vibration that can pass through solids, liquids, and gases.

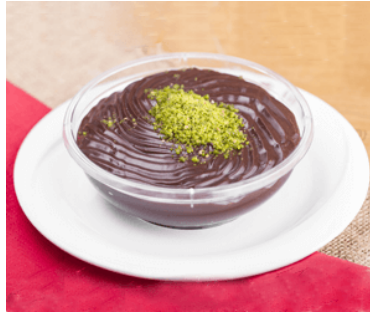
- True
- False

Choose the correct answer.

5. Which of the following best describes how sound travels through solids, liquids, and gases?

- Sound travels faster in gases than in liquids, and faster in liquids than in solids.
- Sound travels faster in solids than in liquids, and faster in liquids than in gases.
- Sound travels faster in liquids than in gases, and faster in gases than in solids.

6. Through which of the following will sound travel faster?



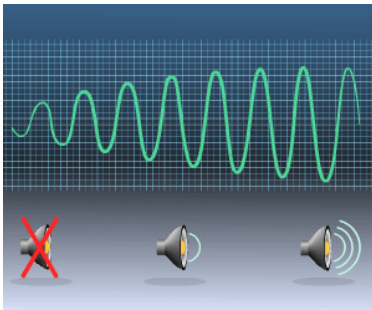
Pudding



Milk

State whether the following statement is true or false.

7. Sound waves cannot travel through empty space.

 True False

8. We hear sound due to vibrations.

- True
- False

9. Sounds with short wavelengths have high frequency and high energy, and sounds with long wavelengths have low frequency and low energy.

- True
- False

Choose the correct answer.

10. As the intensity of a sound wave _____, the loudness of the sound also increases.

- increases
- decreases

11. In which of the following substances will sound travel faster?

- Water
- Wood

12. Intensity of sound waves is the amount of _____ that flows through a certain area in a specific amount of time.



- energy
- vibration

13. The loudness of a sound is measured in _____.



- wavelengths
- decibels

14. Which of the following is a common property of light and sound?

- They are carried in waves.
- They can pass through liquids.
- They are forms of energy.
- All of the above

15. All sounds are created when something _____.



- vibrates
- reflects