

Physics Sound Worksheet

1. The frequency of a musical note is increased. A student hearing the sound detects an increase in which property?
- loudness of the sound
 - pitch of the sound
 - speed of the sound wave
 - wavelength of the sound wave
2. A man holding a starting pistol stands 640m away from a spectator.



The spectator hears the sound of the starting pistol 2.0s after seeing the flash from the pistol. Using this information, what is the speed of sound in air?

- 160m/s
- 320m/s
- 640m/s
- 1280m/s

3. The diagrams represent two sound waves. The scales in the two diagrams are the same.



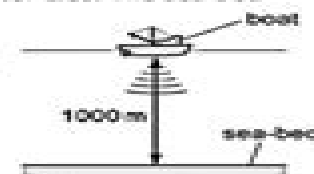
Which statement describes the waves?

- The waves have different loudness and different pitch.
 - The waves have different loudness but the same pitch.
 - The waves have the same loudness and the same pitch.
 - The waves have the same loudness but different pitch.
4. What is the approximate range of audible sound frequencies for a human with good hearing?
- from 20Hz to 2000Hz
 - from 20Hz to 20000Hz
 - from 200Hz to 20000Hz
 - from 200Hz to 200000Hz
5. A sound wave is travelling through water. What is a possible speed for the wave?
- 150 m/s
 - 300m/s
 - 1500m/s
 - 5000m/s

6. A pulse of sound is produced at the bottom of a boat. The sound travels through the water and is reflected from the sea-bed. The sound reaches the boat again after 1.3s. The sea-bed is 1000m below the boat.

Using this information, what is the speed of sound in the water?

- 769m/s
- 1300m/s
- 1538m/s
- 2600m/s



7. A student stands a few hundred metres away from a wall and shouts. He hears a faint echo. Which statement is correct?
- The sound waves returning are quiet because they have a reduced frequency.
 - The sound waves returning are quiet because they have a reduced wavelength.
 - The sound waves returning to the student are longitudinal.
 - The sound waves returning to the student are transverse.
8. Which statement about ultrasound is correct?
- It is produced by a rapidly vibrating source.
 - It is uncomfortable to human ears.
 - Its frequency must be greater than 300kHz.
 - It travels the fastest in a vacuum.
9. Which statement about sound waves is correct?
- They are able to travel through a vacuum.
 - They are able to travel through solids.
 - They are transverse waves.
 - They travel at the same speed in all substances.
10. Both the amplitude and the frequency of a sound wave decrease. What happens to the sound heard?
- The sound is louder and has a higher pitch.
 - The sound is louder and has a lower pitch.
 - The sound is quieter and has a higher pitch.
 - The sound is quieter and has a lower pitch.

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Yijin Wang



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